



Phillips 66 Company
Los Angeles Refinery
Wilmington Plant

**AB 2588 Air Toxics “Hot Spots”
Risk Reduction Plan
RY 2015**

Prepared for:

Phillips 66 Company
Los Angeles Refinery - Wilmington Plant
1660 West Anaheim Street
Wilmington, CA 90744

Prepared by:

Davenport Engineering, Inc.
23705 Crenshaw Blvd., Suite 101
Torrance, CA 90505

October 29, 2021

FORM A	SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT AB 2588 Program, 21865 COPLEY DR., DIAMOND BAR CA 91765-0949	INVENTORY YEAR 20 ¹⁵

AB 2588 AIR TOXICS DOCUMENT CERTIFICATION & SUBMITTAL FORM

Please check the appropriate boxes for purpose of submittal:

<input type="checkbox"/> INITIAL INFORMATION for ATIR	<input type="checkbox"/> EARLY ACTION REDUCTION PLAN (EARP)	<input type="checkbox"/> INITIAL
<input type="checkbox"/> AIR TOXICS INVENTORY REPORT (ATIR)	<input type="checkbox"/> VOLUNTARY RISK REDUCTION PLAN (VRRP)	<input checked="" type="checkbox"/> REVISION
<input type="checkbox"/> HEALTH RISK ASSESSMENT (HRA)	<input type="checkbox"/> IMPLEMENTATION PROGRESS REPORT for VRRP/RRP	<input type="checkbox"/> FINAL
<input checked="" type="checkbox"/> RISK REDUCTION PLAN (RRP)	<input type="checkbox"/> OTHER: _____	

Does your facility participate or wish to participate in VRRP program pursuant to Rule 1402(h)? YES

Please provide the following information:

Facility name	South Coast AQMD ID	Facility SIC/NAICS CODE
<input type="text" value="P66 Los Angeles Refinery - Wilmington Plant"/>	<input type="text" value="171107"/>	<input type="text" value="324110"/>
Facility Location Address	Mailing Address	
<input type="text" value="1660 West Anaheim Street"/>	<input type="text" value="1660 West Anaheim Street"/>	
<input type="text" value="Wilmington, California 90744"/>	<input type="text" value="Wilmington, California 90744"/>	

Contact Person (Company Official)

Name: Michael D. Bechtol	Title: Environmental Manager
Telephone: (310) 952-6132	eMail: mike.d.bechtol@p66.com

Preparer (if different from above)

Name: Trevor Ford	Title: Senior Engineer
Company: Davenport Engineering, Inc.	
Telephone: (310) 787-4600 x19	eMail: trevor.ford@davenport-co.com

FAILURE TO SUBMIT REQUIRED INFORMATION OR KNOWINGLY SUPPLYING FALSE INFORMATION IS PUNISHABLE TO THE EXTENT DEFINED IN HEALTH AND SAFETY CODE SECTIONS 44381(a) AND 44381(b), WHICH INCLUDES MINIMUM FINES OF NOT LESS THAN FIVE HUNDRED DOLLARS.

Signature Of Responsible Company Official	Date
<input type="text" value="Michael D. Bechtol"/>	<input type="text" value="10/20/21"/>
Name Of Responsible Company Official	Title
<input type="text" value="Michael D. Bechtol"/>	<input type="text" value="Environmental Manager"/>

GLOSSARY OF TERMS

Assembly Bill 2588 (AB 2588): California's Air Toxics "Hot Spots" Information and Assessment Act of 1987 that requires the California Air Resources Board (ARB) to compile and maintain a list of substances that pose chronic or acute threats to public health when present in the air. Additionally, the "Hot Spots" program includes an emissions inventory, requirements for assessing health risks, and provisions for notifying the public about emissions of toxic air contaminants.

Action Risk Level: Maximum Individual Cancer Risk (MICR) of twenty-five in one million (25×10^{-6}), cancer burden of 0.5, or a total acute or chronic HI of three (3.0) for any target organ system at any receptor location.

Acute Health Impact: Health effect that is characterized by sudden and severe exposure and rapid absorption of the substance (e.g., minutes or hours).

Air Resources Board (ARB): Established in 1967 by California's Legislature to: 1) attain and maintain healthy air quality, 2) conduct research into the causes of and solutions to air pollution, and 3) systematically attack the serious problems caused by motor vehicles, which are a major cause of air pollution in the State.

Annual Emissions Reporting (AER): Program that was developed by the South Coast Air Quality Management District (AQMD) to track emissions of air contaminants from permitted facilities.

Building Downwash: Phenomenon caused by eddies created by air movement around building obstacles. Buildings act as barriers triggering pollutant accumulation that will then increase concentration values.

Building Profile Input Program (BPIP): Software program designed to incorporate the concepts and procedures expressed in the Good Engineering Practice (GEP) technical support document, building downwash guidance, and other related references to calculate building heights and projected building widths for simple, multi-tiered, and groups of structures.

California Air Pollution Control Officers Association (CAPCOA): Association of Air Pollution Control Officers representing all thirty-five local air quality agencies throughout California.

Cancer Burden: Estimated increase in the occurrence of cancer cases in a population subject to a Maximum Individual Cancer Risk (MICR) of greater than or equal to one in one million (1×10^{-6}) resulting from exposure to toxic air contaminants.

Cancer Risk: The theoretical probability of contracting cancer when continually exposed for a lifetime (30 years) to a given concentration of a substance.

Chronic Health Impact: Health effect that is characterized by prolonged or repeated exposures over many days, months, or years. Symptoms may not be immediately apparent. 8-hour chronic health impacts result from daily 8-hour exposure periods.

Coarse Grid: Receptors laid out in a grid pattern surrounding a facility at 500 meter spacing. The purpose of the coarse grid is to identify the general locations of large ground-level concentrations.

Fine Grid: Receptors laid out in a grid pattern surrounding a facility at 100 meter spacing in order to look in more detail at areas where concentrations are high. The purpose of the fine grid is to identify the maximum ground-level concentration point and to identify local gradients in concentrations.

Hotspots Analysis and Reporting Program (HARP): Single integrated software package that combines the tools of emission inventory database, facility prioritization, air dispersion modeling, and risk assessment analysis.

Hazard Index (HI): The sum of individual acute or chronic hazard quotients for substances that affect the same target organ or organ system.

Health Risk Assessment (HRA): Comprehensive analysis of the dispersion of hazardous substances in the environment, their potential for human exposure, and a quantitative assessment of both individual and population-wide health risks associated with those levels exposed.

Maximum Exposed Individual Resident (MEIR or residential MEI): Location of an actual residence where a person resides or could reside for 30 years and has the highest estimated health impact. Primary exposure pathways include inhalation, ingestion of soils, dermal contact with soils, and ingestion of mother's milk as an infant.

Maximum Exposed Individual Worker (MEIW or worker MEI): Location of an area currently zoned or used for commercial or industrial purposes and has the highest estimated health impact. Exposure pathways include inhalation, soil ingestion, and dermal contact. Exposure durations for workers are typically 8 hours per day, 240 days per year, for 25 years.

Maximum Individual Cancer Risk (MICR): Estimated probability of a potential maximally exposed individual contracting cancer as a result of exposure to toxic air contaminants over a period of 30 years.

Noncancer Risk: Risk associated with acute or chronic health effects.

Office of Environmental Health Hazard Assessment (OEHHA): Specialized department within the cabinet-level California Environmental Protection Agency with responsibility for evaluating health risks from environmental chemical contaminants.

Point of Maximum Impact (PMI): Location of maximum estimated off-site health impact.

Risk Reduction Plan (RRP): A plan outlining proposed risk reduction measures that decrease or eliminate risk associated with emissions of toxic air contaminants

Sensitive Receptors: Location of specific sensitive sites where certain populations may exist, such as a school or nursing home.

South Coast Air Quality Management District (SCAQMD): Air pollution control agency for all of Orange County and the urban portions of Los Angeles, Riverside, and San Bernardino counties.

Zone of Impact: Area surrounding a facility where receptors have a potential cancer risk greater than 1×10^{-6} (one in a million), or an acute or chronic hazard index of 0.5.

LIST OF ABBREVIATIONS

AB 2588	Assembly Bill 2588
AER	Annual Emissions Reporting
AERMOD	American Meteorological Society / US EPA air dispersion model
ARB	California Air Resources Board
ATIR	Air Toxic Inventory Report
BPIP	Building Profile Input Program
CAPCOA	California Air Pollution Control Officers Association
CAS	Chemical Abstracts Service
CPF	Cancer Potency Factor
CSF	Cancer Slope Factor
DICE	Diesel Internal Combustion Engine
DPM	Diesel Particulate Matter
EF	Emission Factor
EPA	U.S. Environmental Protection Agency
HARP	“Hot Spots” Analysis and Reporting Program
HI	Hazard Index
HRA	Health Risk Assessment
ICE	Internal Combustion Engine
MEI	Maximally Exposed Individual
MEIR	Maximally Exposed Individual Resident
MEIW	Maximally Exposed Individual Worker
MHE	Maximum Hourly Emission
OEHHA	Office of Environmental Health Hazard Assessment
PAHs	Polycyclic Aromatic Hydrocarbons
PF	Potency Factor
PMI	Point of Maximum Impact
REL	Reference Exposure Level
RRP	Risk Reduction Plan
RY	Reporting Year
SCAQMD	South Coast Air Quality Management District
TAC	Toxic Air Contaminant
UTM	Universal Transverse Mercator
WGS84	World Geodetic System 1984

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APPENDIX A - HEALTH RISK ANALYSIS

APPENDIX B - DETAILED AIR TOXIC EMISSIONS

1.0 Project & Facility Background

The Phillips 66 Los Angeles Refinery operates a plant facility in Wilmington, California which is subject to emission and health risk reporting requirements imposed by the California *Air Toxics “Hot Spots” Information and Assessment Act of 1987* (AB 2588). The South Coast Air Quality Management District (SCAQMD) is the lead agency for administering AB 2588 requirements in the region. Because two Rule 1402 Action Risk Levels were exceeded in the health risk assessment (HRA) approved by the SCAQMD in a letter dated August 21, 2020, Phillips 66 is required to submit this Risk Reduction Plan (RRP) outlining the facility’s proposed actions to reduce the impact of total facility emissions below Rule 1402 Action Risk Levels.

Facility Name:	Phillips 66 Los Angeles Refinery - Wilmington Plant
SCAQMD FID:	171107
Facility Location:	1660 W. Anaheim St. Wilmington, CA 90744 UTMs 11S 380720 m E, 3737698 m N
SIC/NAICS:	2911/324110

The Wilmington Plant processes intermediate feed stocks into transportation fuels and other products. Sources of toxic air emissions include industrial heaters and boilers, refinery flares, process vents, storage tanks, cooling towers, a wastewater treatment unit, piping components, and various maintenance and repair equipment.

The SCAQMD identified 2015 as the base operating year for the HRA. A number of large-scale refinery turnaround and maintenance activities occurred in 2015, which required the use of many rented and contracted diesel engines subject to AB 2588 reporting. Consequently, particulate matter (PM) exhaust from diesel engines was abnormally high and identified as the primary risk driver in the HRA.

2.0 Current Health Risk Results

Health impacts (i.e., risks) in the approved HRA were determined after carefully considering the facility’s source locations and emissions, their release characteristics, human exposure pathways, and surrounding land use and meteorology. AB 2588 requires quantification and reporting of the following incremental risks:

- Individual lifetime cancer risk
- Population cancer risk (cancer burden)
- Long-term and acute noncancer effects

Risks associated with the approved 2015-based HRA were found to be:

- Above certain levels adopted by the SCAQMD for purposes of public notification
- Above certain levels identified in SCAQMD Rule 1402 requiring a risk reduction plan

In the approved HRA, Phillips 66 reported a residential cancer risk of 33.8 in one million at the maximally exposed individual resident (MEIR), which is above the 25 in one million action level triggering a risk reduction plan. The cancer burden score for population-wide exposure was found to be 0.64, which is also above an action level (0.5). A Public Meeting was hosted by SCAQMD on October 1, 2020 to notify the public of these and other risks associated with emissions for the 2015 operating year.

Over 65% of cancer risk at the residential and worker MEIs was attributed to exposure to diesel PM exhaust (DPM). The highest chronic and acute hazard indexes (HIs) were found to be below Rule 1402 Action Risk Levels.

3.0 Emission Inventory Changes from Approved HRA

After the 2015 operating year, Phillips 66 implemented the following permanent and verifiable emission changes.

3.1 Adjustments for Installation of Tank Domes

Phillips 66 determined after submitting the 2015 AER that five storage tanks categorized as external floating roofs (EFR) already contained a geodesic dome or had a dome installed after 2015. The following tanks were affected by this change and are characterized as domed external floating roof tanks (DEFRT) in this RRP: Tank 169 (Release ID 70114), Tank 277 (Release ID 70125), Tank 349 (Release ID 70240), Tank 6 (Release ID 70083), and Tank 66 (Release ID 70094).

3.2 Fuel Change for Thermal Oxidizer

In early 2016, a propane-fired Thermal Oxidizer (Release ID 70247) was converted to cleaner-burning natural gas. The updated emissions from natural gas combustion were aggregated with other natural gas combustion equipment (Release ID 70246).

3.3 Use of New Heater and Boiler Source Test Data

An Air Toxics Inventory Report (ATIR) which preceded the HRA was approved by the SCAQMD under condition that Phillips 66 would conduct additional source tests on select external combustion heaters and boilers. These tests were conducted in November 2019, and the results were cited in emission updates for this RRP. The impact from use of new heater and boiler emission factors resulted in a slight decrease in overall facility risks.

4.0 Risk Reduction Measures

In addition to the above emission inventory changes, Phillips 66 proposes the following changes in equipment to reduce 2015 risks below Action Risk Levels (MEIR, cancer burden).

4.1 DPM Filter Installation for Permitted Engines

Prior to the end of the 2015 calendar year, Phillips 66 obtained permits for DPM filters to be installed on three permitted internal combustion engines: the Boiler Plant Backup Generator (Release ID 70075), ORU Backup Generator (Release ID 70077), and COGEN Startup Engine (Release ID 70057). These filters were installed in 2016 and have the effect of reducing total DPM emissions from these three (3) sources by 85% each.

4.2 Removal of FCCU Heaters

In late 2015, two heaters associated with the FCC unit were permanently removed from service and are no longer a source of emissions for the facility. The affected heaters are U152 B-201 (Release ID 70032) and U152 B-202 (Release ID 70033).

4.3 Institution of a DPM Emissions Limit

The primary driver for residential cancer risk at facility is diesel particulate matter (DPM) emissions from portable internal combustion engines (ICEs). Phillips 66 takes these risk contributions seriously and has developed a robust portable engine logging system to track engine usage, tier, and horsepower to ensure an accurate and representative inventory of DPM emissions on site.

Phillips 66 also tracks the locations of engine use, and cites this information to model risk. For modeling purposes in the approved HRA, portable engines and their corresponding emissions were distributed among a grid of point sources matching the general geographic footprint of engines used throughout the 2015 year. The same geographic distribution of portable engine emissions was maintained for modeling in this RRP.

Phillips 66 has worked to improve its engine rental program by prioritizing rental of the cleanest, highest-tier engines whenever possible. Designation and use of Tier 4 diesel engines is required, with limited exception when a Tier 4 engine is not available. A sticker is issued by a Phillips 66 employee for each Tier 4 engine. Diesel engines must be designated with this approval sticker before their initial use on site.

This program has shown increasing success over the past four years, and as a result the facility has experienced a notable drop in DPM emissions from portable engines. Through extensive modeling, Phillips 66 demonstrated for this RRP that health risks drop below all Action Risk Levels if total emissions from rental engines are reduced to 523 lbs per year. Therefore, Phillips

66 is proposing to accept a rental engine DPM limit of 523 lbs per year, demonstrated over a rolling five year averaging period, to ensure that lifetime health risks remain below Action Risk Levels in the future. Because major plant turnarounds generally occur every five years, Phillips 66 believes DPM emissions associated with a five year averaging period are more representative of “routine and predictable” emissions as defined in AB 2588 guidelines.

5.0 Risk Reduction Implementation Schedule

A schedule of the proposed risk reduction measures is outlined in Table 5-1

Table 5-1 Risk Reduction Implementation Schedule

Item	Risk Reduction Measure Description	Implementation Status
1	DPM Filter Installation for Permitted Engines	Complete
2	Removal of FCCU Heaters	Complete
3	Institution of a DPM Emissions Limit	TBD by SCAQMD

6.0 Updated HRA Characterization

The risk reduction measures outlined above will result in facility risks falling below Rule 1402 Action Risk Levels, and the primary means of risk reduction will be achieved by reducing rental engine emissions. Table 6-1 summarizes the approved HRA risks alongside RRP-related risks and SCAQMD Action Risk Levels. Also refer to the SCAQMD Health Risk Assessment Summary Form included near the front of this HRA report document.

Table 6-1 Health Risk Summary Table

Maximally Exposed Individual (MEI)	HRA Risk	RRP Risk	Public Notice	Risk Reduction
Residential Cancer Risk	33.8 x 10 ⁻⁶	24.9 x 10 ⁻⁶	10 x 10 ⁻⁶	25 x 10 ⁻⁶
Worker Cancer Risk	2.9 x 10 ⁻⁶	2.3 x 10 ⁻⁶	10 x 10 ⁻⁶	25 x 10 ⁻⁶
Point of Maximum Impact (PMI)	47.4 x 10 ⁻⁶	38.6 x 10 ⁻⁶		
Residential Chronic HI	0.17	0.15	1	3
Worker Chronic HI	0.19	0.15	1	3
PMI Chronic HI	0.25	0.20		
Residential Acute HI	0.32	0.31	1	3
Worker Acute HI	0.40	0.36	1	3
PMI Acute HI	0.44	0.44		
Cancer Burden	0.64	0.46	--	0.5

The facility, its boundary, and surrounding land use are represented in Figure 7-1. The HRA study area, after implementing all permanent emission inventory changes and risk reduction measures (i.e., the RRP), is represented in Figure 7-2. The location of each RRP-related MEI in Table 6-1 is identified in Figure 7-3. Complete and more detailed risk summary information associated with this RRP can be found in Appendix A. And a complete, updated emissions profile for each source can be found in Appendix B.

7.0 Conclusions

Phillips 66 has voluntarily reduced DPM emissions considerably since 2015 based on a concerted effort to use cleaner burning engines and install DPM filters where feasible. Records show a pattern of DPM emission reductions after the facility satisfied AB 2588 HRA public notification requirements in 2013. Phillips 66 attributes the trend in emission reductions to better project planning and plant awareness related to need for and use of the lowest emitting Tier 4 portable engines available.

The previously outlined risk reduction measures (i.e., emission reductions) have already been achieved and are reflected in the most recent AB 2588 quadrennial emissions inventory (2019 AER). Phillips 66 is committed to maintaining risks below Rule 1402 Action Risk Levels.

Figure 7-1 Facility Plot Plan and Nearby Land Use Map



Figure 7-2 Facility, Surrounding Land Use, Study Area

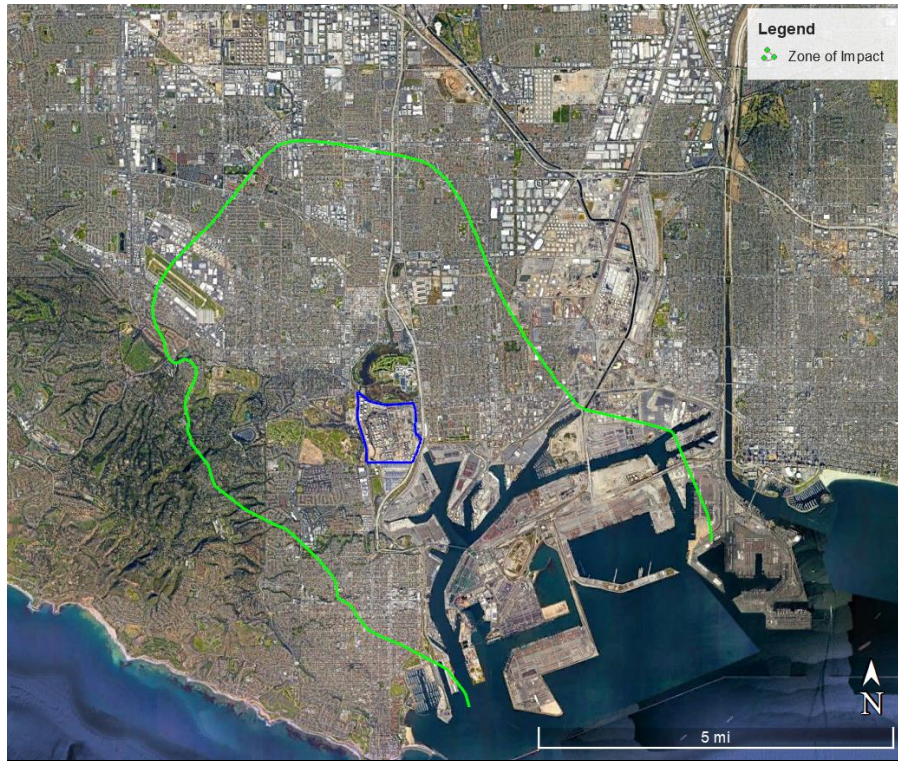


Figure 7-3 Cancer and Noncancer MEIs¹



¹ MEI locations are the same for cancer and noncancer health impacts except for the acute Worker MEI and PMI (see Figure A-8).

Appendix A

Health Risk Analysis

Health Risk Analysis

The HRA document submitted to the SCAQMD on June 9, 2020 and approved on August 21, 2020, was prepared in accordance with the detailed and specific framework provided by OEHHA and SCAQMD AB2588 guidance documents. This appendix is prepared with tables and figures as a direct compliment to Section 6 of the approved HRA. No source modeling or risk characterization input parameters were changed as a result of the proposed risk reduction measures, and the locations of MEIs for all cancer and non-cancer health impacts are identical in this RRP analysis to those in the approved HRA. Therefore, detailed narrative on risk characterizations is omitted in this appendix.

Table A-1 Cancer Risk at the Residential MEI

Substance	Inhalation	Soil Ingestion	Plant Ingestion	Dermal Absorption	Mother's Milk	Total
Diesel PM	1.84E-05					1.84E-05
Chromium, hexavalent	6.59E-07	1.16E-08	3.81E-07	4.47E-10		1.05E-06
PAHs, w/o indiv. comp.	2.61E-08	9.71E-08	4.76E-07	2.42E-08	2.31E-07	8.54E-07
Benzene	7.91E-07					7.91E-07
Naphthalene	7.30E-07					7.30E-07
Arsenic	4.95E-08	3.73E-07	2.40E-07	1.82E-08		6.81E-07
Cobalt	6.43E-07					6.43E-07
Benzidine	6.13E-07					6.13E-07
1,3-Butadiene	4.28E-07					4.28E-07
Nickel	2.55E-07					2.55E-07
Formaldehyde	1.62E-07					1.62E-07
Other Carcinogens	2.31E-07	9.36E-09	2.04E-08	1.13E-09	1.02E-08	2.72E-07
Total	2.30E-05	4.91E-07	1.12E-06	4.39E-08	2.41E-07	2.49E-05

Table A-2 Top 25 Sources Contributing to Cancer Risk at the Residential MEI

Modeling Source No.	Rank	Percent of Total Risk	Cancer Risk	Source Description
Multiple	1	72.00%	1.79E-05	NON-PERMITTED ICE'S - DIESEL (Total)
213	2	3.28%	8.17E-07	SPILLS AND RELEASES, ASBESTOS, CATALYST
221	3	3.27%	8.15E-07	WELDING
40	4	2.06%	5.15E-07	U118 HTR-H401 (HLNX, 5CR)
161	5	1.76%	4.39E-07	BLK 14 FUGITIVES
157	6	1.69%	4.22E-07	BLK 7 FUGITIVES
51	7	1.44%	3.58E-07	GW THERMAL OXIDIZER
25	8	1.27%	3.16E-07	FCC STACK
156	9	1.09%	2.71E-07	BLK 6 FUGITIVES
178	10	0.97%	2.42E-07	BLK 37 FUGITIVES
150	11	0.88%	2.19E-07	API SEPARATOR 1
42	12	0.82%	2.05E-07	U141 HRT - ACID PLANT STACK
44	13	0.68%	1.70E-07	EMERGENCY FIREWATER #1-3 [TK 210]
45	14	0.64%	1.60E-07	FIRE WATER PUMP, #3621-3622 [RD 14]
183	15	0.57%	1.42E-07	BLK 45 FUGITIVES
122	16	0.44%	1.11E-07	TANK 351
207	17	0.38%	9.54E-08	GASOLINE DISPENSING
38	18	0.35%	8.74E-08	U152 E-650 CT
6	19	0.34%	8.51E-08	90-B-401
121	20	0.32%	8.05E-08	TANK 350
154	21	0.28%	7.10E-08	BLK 4 FUGITIVES
56	22	0.28%	7.02E-08	COGEN PLANT BACKUP GENERATOR
174	23	0.25%	6.25E-08	BLK 33 FUGITIVES
176	24	0.23%	5.64E-08	BLK 35 FUGITIVES
175	25	0.22%	5.42E-08	BLK 34 FUGITIVES

Table A-3 Cancer Risk at the Worker MEI

Substance	Inhalation	Soil Ingestion	Plant Ingestion¹	Dermal Absorption	Mother's Milk¹	Total
Diesel PM	1.31E-06					1.31E-06
Cobalt	1.70E-07					1.70E-07
Chromium, hexavalent	1.62E-07	3.43E-09		2.38E-10		1.66E-07
Naphthalene	1.52E-07					1.52E-07
Benzene	1.26E-07					1.26E-07
Benzidine	1.15E-07					1.15E-07
1,3-Butadiene	8.47E-08					8.47E-08
Nickel	6.66E-08					6.66E-08
PAHs - w/o ind. comp.	4.24E-09	1.81E-08		1.57E-08		3.80E-08
Arsenic	3.20E-09	1.17E-08		4.68E-09		1.96E-08
Ethylbenzene	1.73E-08					1.73E-08
Other Carcinogens	2.22E-08	5.53E-10		2.58E-10		2.30E-08
Total	2.24E-06	3.38E-08		2.08E-08		2.29E-06

¹ The Plant Ingestion and Mother's Milk pathways are not considered for work exposure and risk

Table A-4 Top 25 Sources Contributing to Cancer Risk at the Worker MEI

Modeling Source No.	Rank	Percent of Total Risk	Cancer Risk ¹	Source Description
Multiple	1	54.20%	1.24E-06	NON-PERMITTED ICE'S - DIESEL (Total)
213	2	9.48%	2.17E-07	SPILLS AND RELEASES, ASBESTOS, CATALYST
161	3	7.74%	1.77E-07	BLK 14 FUGITIVES
221	4	7.60%	1.74E-07	WELDING
183	5	3.04%	6.95E-08	BLK 45 FUGITIVES
45	6	1.35%	3.10E-08	FIRE WATER PUMP, #3621-3622 [RD 14]
176	7	1.28%	2.94E-08	BLK 35 FUGITIVES
175	8	1.14%	2.61E-08	BLK 34 FUGITIVES
178	9	0.92%	2.11E-08	BLK 37 FUGITIVES
44	10	0.86%	1.97E-08	EMERGENCY FIREWATER #1-3 [TK 210]
174	11	0.76%	1.75E-08	BLK 33 FUGITIVES
154	12	0.70%	1.61E-08	BLK 4 FUGITIVES
122	13	0.64%	1.46E-08	TANK 351
121	14	0.46%	1.05E-08	TANK 350
40	15	0.44%	1.01E-08	U118 HTR-H401 (HLNX, 5CR)
162	16	0.43%	9.86E-09	BLK 15 FUGITIVES
25	17	0.43%	9.82E-09	FCC STACK
217	18	0.42%	9.52E-09	TANK 349
150	19	0.38%	8.60E-09	API SEPARATOR 1
56	20	0.35%	7.94E-09	COGEN PLANT BACKUP GENERATOR
156	21	0.32%	7.32E-09	BLK 6 FUGITIVES
6	22	0.31%	7.14E-09	90-B-401
181	23	0.29%	6.59E-09	BLK 43 FUGITIVES
246	24	0.27%	6.18E-09	BOILER 4
53	25	0.25%	5.62E-09	NON-PERMITTED ICES - GASOLINE

¹ The Plant Ingestion and Mother's Milk pathways are not considered for work exposure and risk

Table A-5 Chronic HIs by Target Organ at the Residential MEI

Target Organ/ System	Substance	Organ-Specific Hazard Index
Cardiovascular System	Arsenic	5.07E-02
	Hydrocyanic acid	2.96E-02
	Phenol	1.11E-06
	Selenium	7.17E-05
	Total	8.03E-02
Central Nervous System	1,1,1-TCA	1.39E-10
	Arsenic	5.07E-02
	Carbon disulfide	5.83E-06
	Carbonyl sulfide	3.25E-04
	Hydrocyanic acid	2.96E-02
	Mercury	3.72E-04
	o-Xylene	3.73E-07
	Phenol	1.11E-06
	p-Xylene	9.07E-07
	Styrene	6.24E-07
	Xylenes	9.01E-05
	Hexane	1.15E-05
	Manganese	1.12E-03
	Selenium	7.17E-05
	Cresols	2.54E-07
Total	8.22E-02	
Circulatory System	Benzene	3.90E-03
	Nickel	2.96E-02
	Dioxins-w/o	3.73E-06
	Chromium, hexavalent	2.33E-05
	2,3,7,8-TCDF	6.76E-07
	1-8OctaCDD	1.25E-09
	Total	3.35E-02
Immune System	Beryllium	2.36E-04
	Total	2.36E-04

**Table A-5
(Continued)**

Target Organ/ System	Substance	Organ-Specific Hazard Index
Reproductive/ Developmental Systems	1,3-Butadiene	5.27E-04
	Arsenic	5.07E-02
	Carbon disulfide	5.83E-06
	Chloroform	8.45E-07
	Mercury	3.72E-04
	Methanol	1.88E-05
	Nickel	5.51E-04
	Chlorobenzene	1.10E-11
	Dioxins-w/o	3.73E-06
	Ethylbenzene	6.59E-06
	2,3,7,8-TCDF	6.76E-07
	1-8OctaCDD	1.25E-09
	Total	5.22E-02
Respiratory System	Acetaldehyde	1.54E-05
	Acrolein	5.49E-03
	Ammonia	4.57E-04
	Arsenic	5.07E-02
	Chlorine	2.80E-04
	Formaldehyde	1.27E-03
	Hydrochloric acid	7.06E-05
	Hydrogen sulfide	1.36E-03
	Nickel	2.96E-02
	o-Xylene	3.73E-07
	p-Xylene	9.07E-07
	Sulfuric acid	5.14E-02
	Xylenes	9.01E-05
	Beryllium	2.36E-04
	Cadmium	6.02E-04
	Naphthalene	1.00E-03
	Propylene	1.46E-05
	Dioxins-w/o	3.73E-06
	Chromium, hexavalent	9.55E-06
	Diesel PM	4.96E-03
	2,3,7,8-TCDF	6.76E-07
	1-8OctaCDD	1.25E-09
Total	1.48E-01	

**Table A-5
(Continued)**

Target Organ/ System	Substance	Organ-Specific Hazard Index
Vision	o-Xylene	3.73E-07
	p-Xylene	9.07E-07
	Toluene	1.12E-04
	Xylenes	9.01E-05
	Methyl t-butyl ether	2.03E-07
	Total	2.04E-04
Skin	Arsenic	5.07E-02
	Total	5.07E-02
Gastrointestinal/ Liver	Chloroform	8.45E-07
	Phenol	1.11E-06
	Beryllium	9.99E-06
	Chlorobenzene	1.10E-11
	Selenium	7.17E-05
	Dioxins-w/o	3.73E-06
	Ethylbenzene	6.59E-06
	Methyl t-butyl ether	2.03E-07
	2,3,7,8-TCDF	6.76E-07
	1-8OctaCDD	1.25E-09
	Total	9.49E-05
Kidney	Chloroform	8.45E-07
	Mercury	3.72E-04
	Phenol	1.11E-06
	Cadmium	1.19E-03
	Chlorobenzene	1.10E-11
	Ethylbenzene	6.59E-06
	Methyl t-butyl ether	2.03E-07
	Total	1.57E-03
Endocrine System	Hydrocyanic acid	2.96E-02
	Dioxins-w/o	3.73E-06
	Ethylbenzene	6.59E-06
	2,3,7,8-TCDF	6.76E-07
	1-8OctaCDD	1.25E-09
	Total	2.96E-02

Table A-6 Chronic HIs By Target Organ at the Worker MEI

Target Organ/ System	Substance	Organ-Specific Hazard Index
Cardiovascular System	Arsenic	1.21E-02
	Hydrocyanic acid	1.46E-02
	Phenol	1.87E-06
	Selenium	3.93E-06
	Total	2.67E-02
Central Nervous System	1,1,1-TCA	1.40E-10
	Arsenic	1.21E-02
	Carbon disulfide	3.15E-06
	Carbonyl sulfide	1.74E-04
	Hydrocyanic acid	1.46E-02
	Mercury	2.20E-04
	o-Xylene	1.87E-07
	Phenol	1.87E-06
	p-Xylene	4.55E-07
	Styrene	1.93E-06
	Xylenes	2.36E-04
	Hexane	2.56E-05
	Manganese	2.67E-03
	Selenium	3.93E-06
	Cresols	7.22E-07
Total	3.00E-02	
Circulatory System	Benzene	7.48E-03
	Nickel	9.29E-02
	Dioxins-w/o	1.03E-07
	Chromium, hexavalent	1.54E-06
	2,3,7,8-TCDF	6.51E-08
	1-8OctaCDD	8.35E-11
	Total	1.00E-01
Immune System	Beryllium	1.35E-04
	Total	1.35E-04

**Table A-6
(Continued)**

Target Organ/ System	Substance	Organ-Specific Hazard Index
Reproductive/ Developmental Systems	1,3-Butadiene	1.25E-03
	Arsenic	1.21E-02
	Carbon disulfide	3.15E-06
	Chloroform	4.23E-07
	Mercury	2.20E-04
	Methanol	4.90E-05
	Nickel	6.43E-04
	Chlorobenzene	5.27E-12
	Dioxins-w/o	1.03E-07
	Ethylbenzene	1.77E-05
	2,3,7,8-TCDF	6.51E-08
	1-8OctaCDD	8.35E-11
	Total	1.43E-02
Respiratory System	Acetaldehyde	1.23E-05
	Acrolein	3.59E-03
	Ammonia	4.59E-04
	Arsenic	1.21E-02
	Chlorine	5.85E-04
	Formaldehyde	1.19E-03
	Hydrochloric acid	3.50E-05
	Hydrogen sulfide	3.36E-03
	Nickel	9.29E-02
	o-Xylene	1.87E-07
	p-Xylene	4.55E-07
	Sulfuric acid	2.88E-02
	Xylenes	2.36E-04
	Beryllium	1.35E-04
	Cadmium	4.55E-04
	Naphthalene	2.50E-03
	Propylene	3.18E-05
	Dioxins-w/o	1.03E-07
	Chromium, hexavalent	2.82E-05
	Diesel PM	4.24E-03
	2,3,7,8-TCDF	6.51E-08
	1-8OctaCDD	8.35E-11
Total	1.51E-01	

**Table A-6
(Continued)**

Target Organ/ System	Substance	Organ-Specific Hazard Index
Vision	o-Xylene	1.87E-07
	p-Xylene	4.55E-07
	Toluene	3.32E-04
	Xylenes	2.36E-04
	Methyl t-butyl ether	3.27E-07
	Total	5.69E-04
Skin	Arsenic	1.21E-02
	Total	1.21E-02
Gastrointestinal/ Liver	Chloroform	4.23E-07
	Phenol	1.87E-06
	Beryllium	2.69E-06
	Chlorobenzene	5.27E-12
	Selenium	3.93E-06
	Dioxins-w/o	1.03E-07
	Ethylbenzene	1.77E-05
	Methyl t-butyl ether	3.27E-07
	2,3,7,8-TCDF	6.51E-08
	1-8OctaCDD	8.35E-11
	Total	2.71E-05
Kidney	Chloroform	4.23E-07
	Mercury	2.20E-04
	Phenol	1.87E-06
	Cadmium	5.46E-04
	Chlorobenzene	5.27E-12
	Ethylbenzene	1.77E-05
	Methyl t-butyl ether	3.27E-07
	Total	7.86E-04
Endocrine System	Hydrocyanic acid	1.46E-02
	Dioxins-w/o	1.03E-07
	Ethylbenzene	1.77E-05
	2,3,7,8-TCDF	6.51E-08
	1-8OctaCDD	8.35E-11
	Total	1.46E-02

Table A-7 Acute HIs By Target Organ at the Residential MEI

Target Organ/ System	Substance	Organ-Specific Hazard Index
Cardiovascular System	Arsenic	1.69E-02
	Total	1.69E-02
Central Nervous System	1,1,1-TCA	5.05E-11
	Arsenic	1.69E-02
	Carbon disulfide	1.96E-05
	Carbonyl Sulfide	1.28E-04
	Chloroform	7.57E-05
	Hydrocyanic acid	1.75E-02
	Hydrogen sulfide	1.64E-02
	Mercury	6.53E-03
	Methanol	1.18E-04
	o-Xylene	5.31E-07
	p-Xylene	1.29E-06
	Toluene	3.91E-04
	Xylenes	1.24E-04
	Total	5.82E-02
Circulatory System	Benzene	1.87E-02
	Total	1.87E-02
Immune System	Benzene	1.87E-02
	Nickel	1.54E-01
	Total	1.73E-01
Reproductive/ Developmental Systems	1,3-Butadiene	1.25E-04
	Arsenic	1.69E-02
	Benzene	1.87E-02
	Carbon disulfide	1.96E-05
	Chloroform	7.57E-05
	Mercury	6.53E-03
	Styrene	1.24E-06
	Total	4.24E-02

**Table A-7
(Continued)**

Target Organ/ System	Substance	Organ-Specific Hazard Index
Respiratory System	Acetaldehyde	1.60E-03
	Acrolein	2.89E-01
	Ammonia	1.44E-03
	Chlorine	8.50E-06
	Chloroform	7.57E-05
	Copper	9.90E-05
	Hydrochloric acid	1.76E-04
	MEK	2.83E-07
	o-Xylene	5.31E-07
	Phenol	1.51E-06
	p-Xylene	1.29E-06
	Styrene	1.24E-06
	Sulfuric Acid	1.84E-02
	Toluene	3.91E-04
	Vanadium	2.63E-05
	Xylenes	1.24E-04
	Total	3.11E-01
Vision	Acetaldehyde	1.60E-03
	Acrolein	2.89E-01
	Ammonia	1.44E-03
	Chlorine	8.50E-06
	Formaldehyde	1.94E-02
	Hydrochloric acid	1.76E-04
	MEK	2.83E-07
	o-Xylene	5.31E-07
	Phenol	1.51E-06
	p-Xylene	1.29E-06
	Styrene	1.24E-06
	Toluene	3.91E-04
	Vanadium	2.63E-05
	Xylenes	1.24E-04
	Total	3.12E-01

Table A-8 Acute HIs By Target Organ at the Worker MEI

Target Organ/ System	Substance	Organ-Specific Hazard Index
Cardiovascular System	Arsenic	7.99E-03
	Total	7.99E-03
Central Nervous System	1,1,1-TCA	6.93E-11
	Arsenic	7.99E-03
	Carbon disulfide	8.02E-06
	Carbonyl sulfide	5.19E-05
	Chloroform	1.29E-05
	Hydrocyanic acid	8.55E-03
	Hydrogen sulfide	1.15E-02
	Mercury	3.08E-03
	Methanol	7.24E-05
	o-Xylene	9.09E-08
	p-Xylene	2.21E-07
	Toluene	4.16E-04
	Xylenes	1.21E-04
	Total	3.18E-02
Circulatory System	Benzene	1.48E-02
	Total	1.48E-02
Immune System	Benzene	1.48E-02
	Nickel	3.43E-01
	Total	3.58E-01
Reproductive/ Developmental Systems	1,3-Butadiene	1.15E-04
	Arsenic	7.99E-03
	Benzene	1.48E-02
	Carbon disulfide	8.02E-06
	Chloroform	1.29E-05
	Mercury	3.08E-03
	Styrene	1.41E-06
	Total	2.60E-02

**Table A-8
(Continued)**

Target Organ/ System	Substance	Organ-Specific Hazard Index
Respiratory System	Acetaldehyde	7.41E-04
	Acrolein	1.36E-01
	Ammonia	7.57E-04
	Chlorine	5.31E-06
	Chloroform	1.29E-05
	Copper	6.55E-05
	Hydrochloric acid	8.16E-05
	MEK	2.85E-07
	o-Xylene	9.09E-08
	Phenol	1.28E-06
	p-Xylene	2.21E-07
	Styrene	1.41E-06
	Sulfuric acid	7.16E-03
	Toluene	4.16E-04
	Vanadium	1.49E-05
	Xylenes	1.21E-04
	Total	1.51E-01
Vision	Acetaldehyde	7.41E-04
	Acrolein	1.36E-01
	Ammonia	7.57E-04
	Chlorine	5.31E-06
	Formaldehyde	1.04E-02
	Hydrochloric acid	8.16E-05
	MEK	2.85E-07
	o-Xylene	9.09E-08
	Phenol	1.28E-06
	p-Xylene	2.21E-07
	Styrene	1.41E-06
	Toluene	4.16E-04
	Vanadium	1.49E-05
	Xylenes	1.21E-04
	Total	1.49E-01

Figure A-1 Zone of Impact

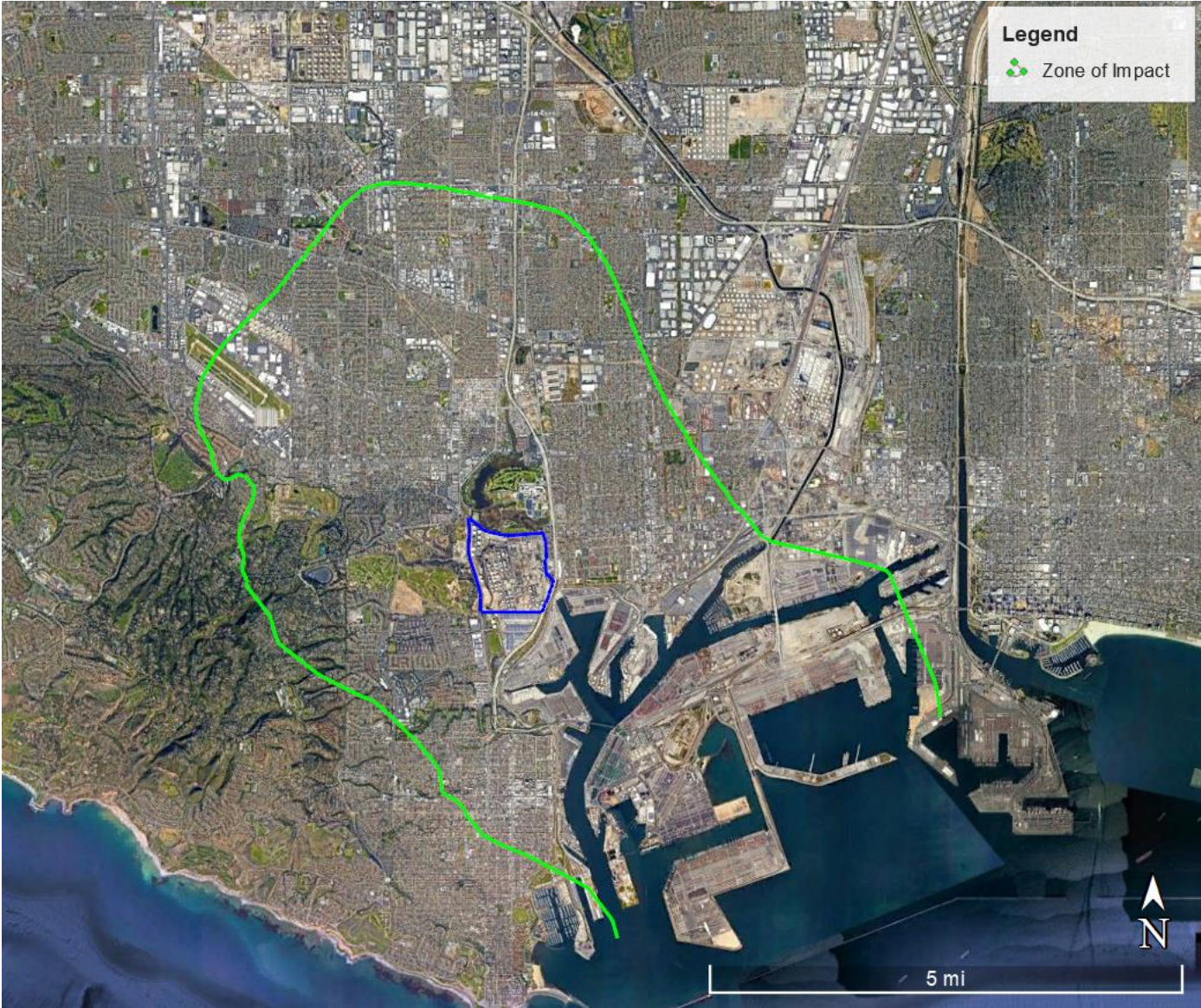


Figure A-2 Location of Cancer Risk MEIs and PMI



Figure A-3 Cancer Risk Isopleths for Residential MEI

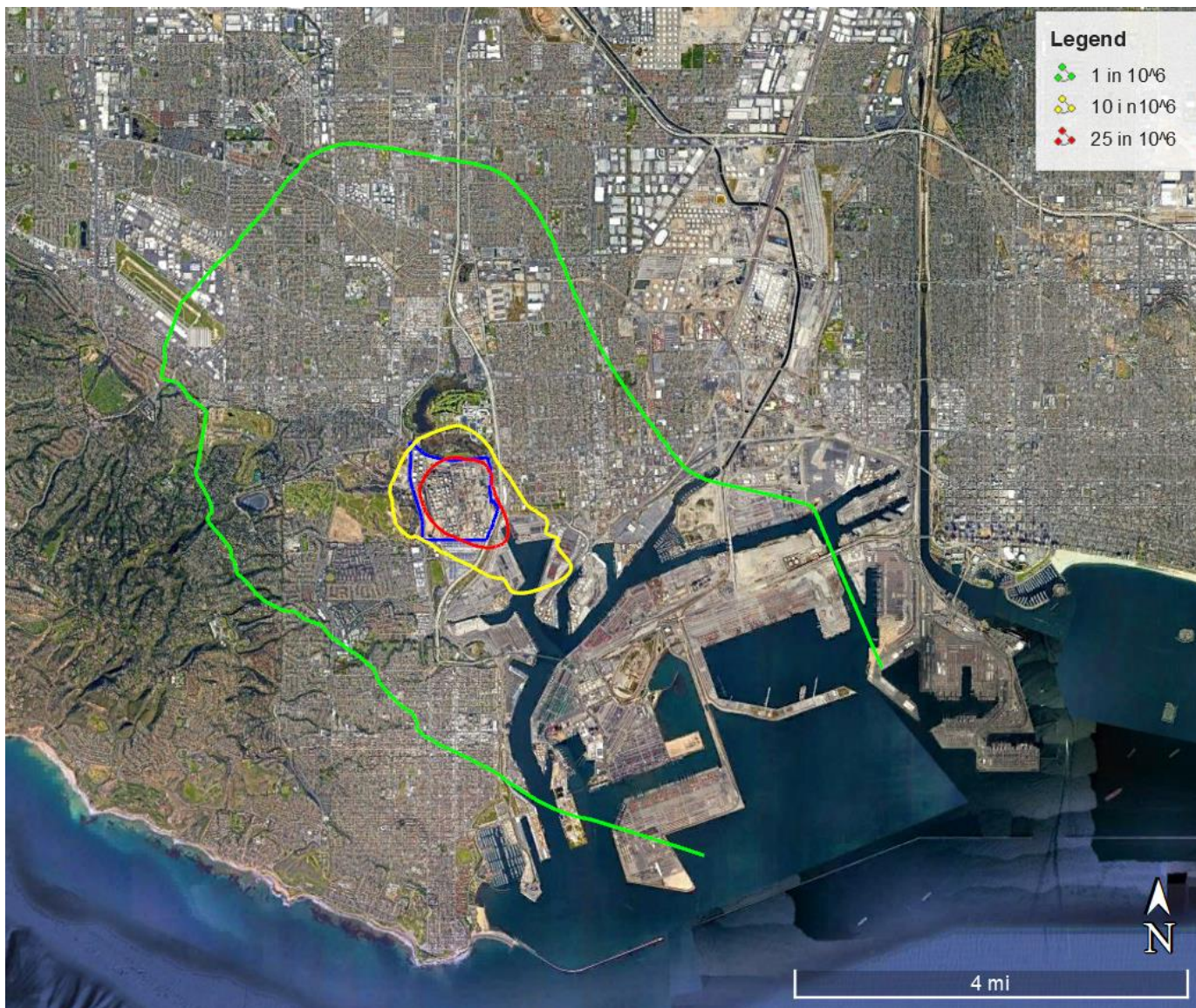


Figure A-4 Cancer Risk Isoleths for Worker MEI

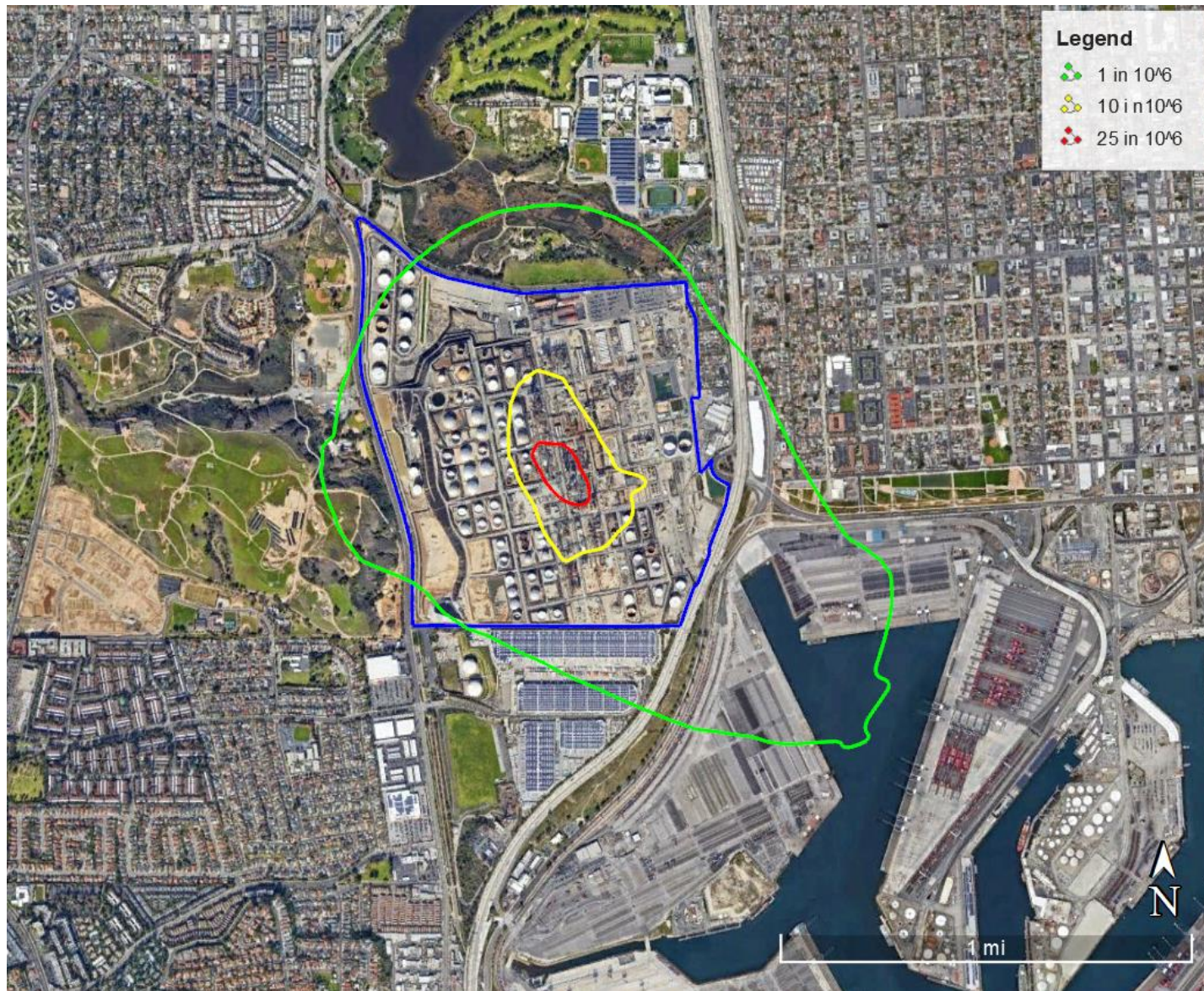


Figure A-5 Location of Chronic HI Risk MEIs and PMI



Figure A-6 Chronic HI Risk Isopleths for Residential MEI



Figure A-7 Chronic HI Risk Isopleths for Worker MEI

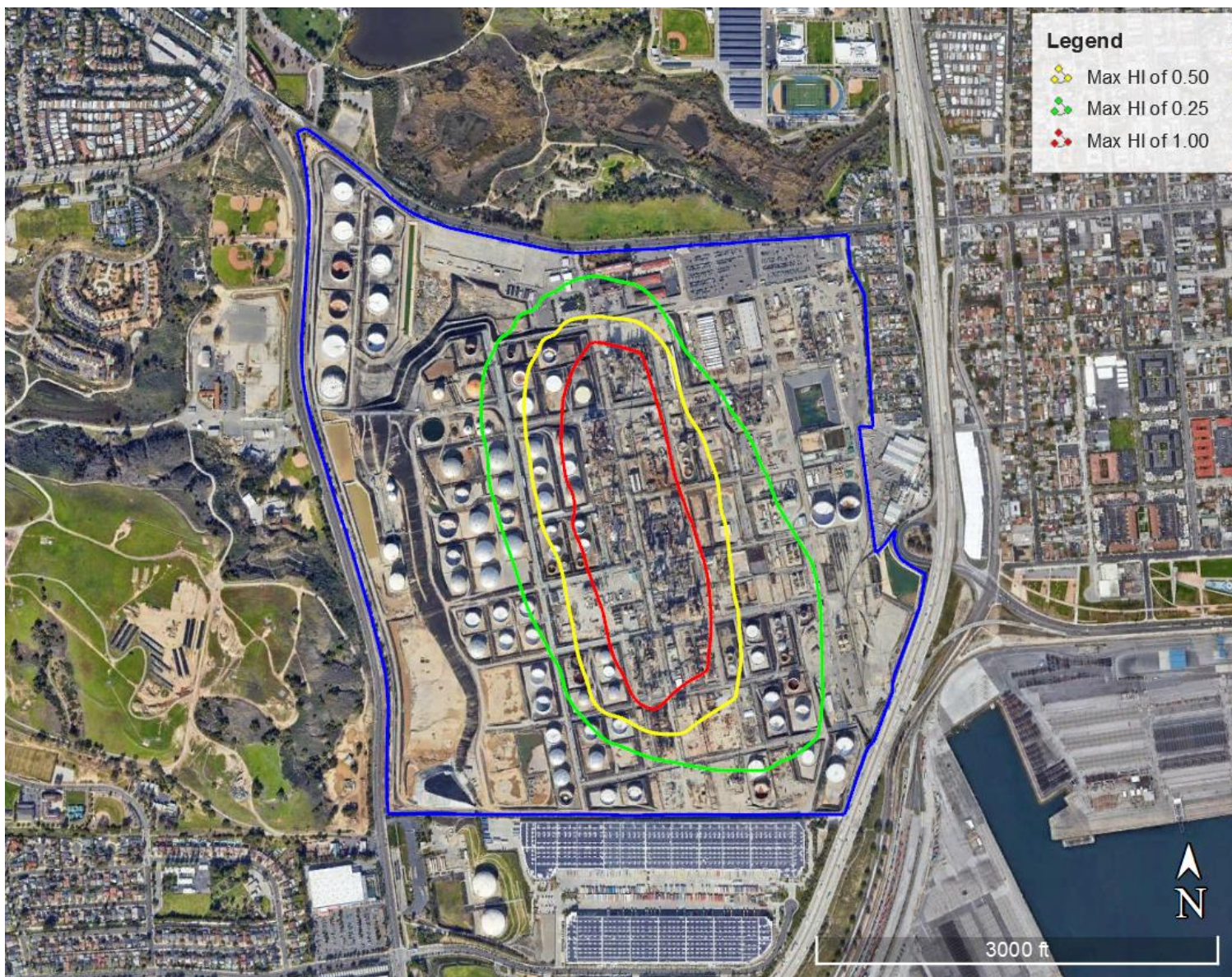
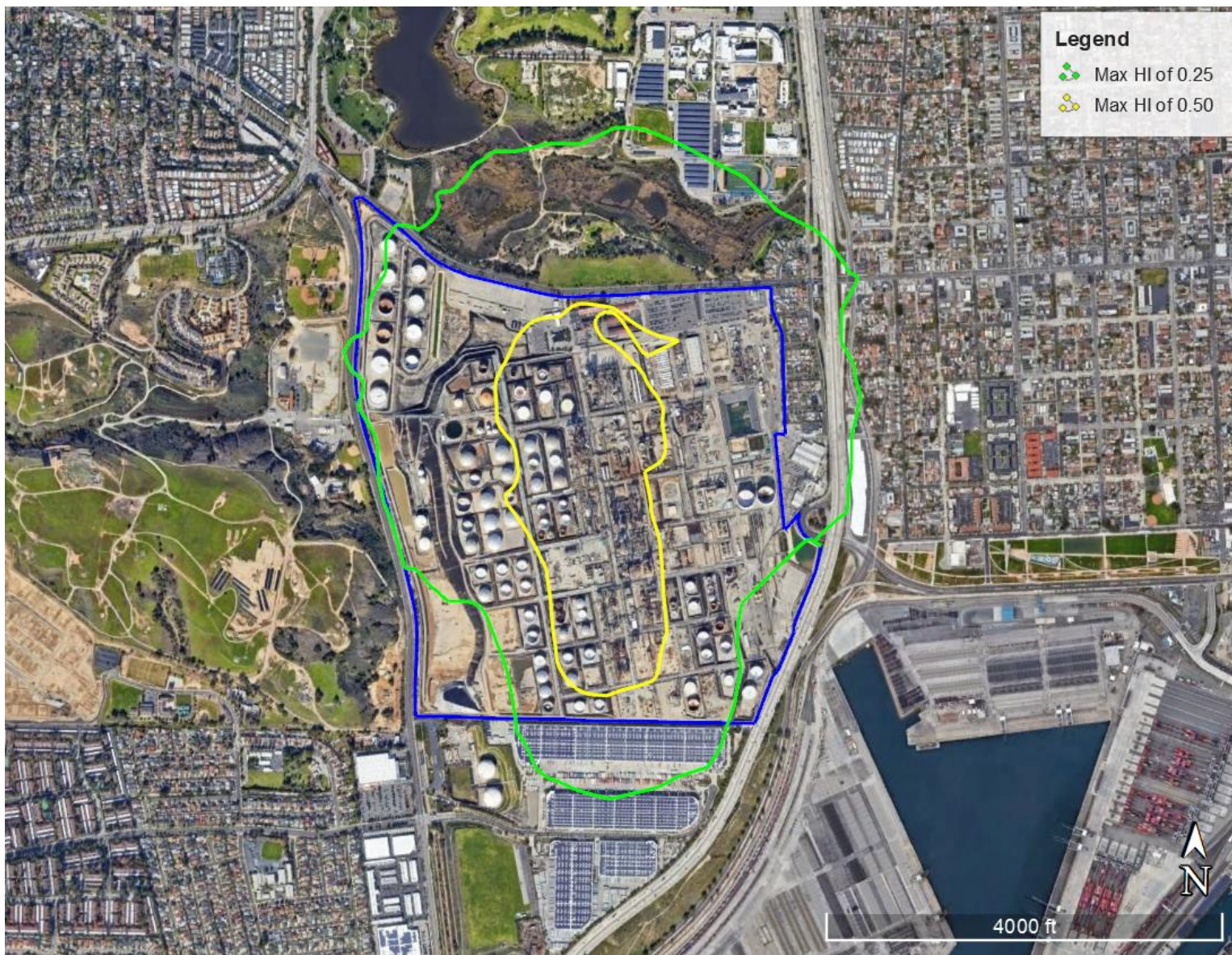


Figure A-8 Location of Acute HI Risk MEIs and PMI



Figure A-9 Acute HI Risk Isopleths for MEIs and PMI



Appendix B

Detailed Air Toxic Emissions

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70001	U60 B-101 HTR	Lead compounds	1128	0.1373	0.000017	7,915	1.97E-06	2.19E-06
70001	U60 B-101 HTR	Formaldehyde	50-00-0	86.7483	0.010960	7,915	1.25E-03	1.38E-03
70001	U60 B-101 HTR	Carbon disulfide	75-15-0	0.5626	0.000071	7,915	8.09E-06	8.96E-06
70001	U60 B-101 HTR	Methyl ethyl ketone	78-93-3	2.1191	0.000268	7,915	3.05E-05	3.37E-05
70001	U60 B-101 HTR	Phenanthrene (PAHs)	85-01-8	0.0011	0.000000	7,915	1.61E-08	1.78E-08
70001	U60 B-101 HTR	Naphthalene	91-20-3	0.0034	0.000000	7,915	4.85E-08	5.37E-08
70001	U60 B-101 HTR	2-Methyl naphthalene (PAHs)	91-57-6	0.0012	0.000000	7,915	1.76E-08	1.95E-08
70001	U60 B-101 HTR	Acrolein	107-02-8	6.2643	0.000791	7,915	9.01E-05	9.97E-05
70001	U60 B-101 HTR	Phenol	108-95-2	1.4739	0.000186	7,915	2.12E-05	2.35E-05
70001	U60 B-101 HTR	Propylene	115-07-1	55.2731	0.006983	7,915	7.95E-04	8.80E-04
70001	U60 B-101 HTR	Pyrene	129-00-0	0.0004	0.000000	7,915	5.20E-09	5.76E-09
70001	U60 B-101 HTR	Dibenzofuran	132-64-9	0.0000	0.000000	7,915	2.26E-11	2.50E-11
70001	U60 B-101 HTR	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0002	0.000000	7,915	2.76E-09	3.06E-09
70001	U60 B-101 HTR	Fluoranthene (PAHs)	206-44-0	0.0004	0.000000	7,915	5.81E-09	6.43E-09
70001	U60 B-101 HTR	Aluminum	7429-90-5	5.4651	0.000690	7,915	7.86E-05	8.70E-05
70001	U60 B-101 HTR	Manganese compounds	7439-96-5	0.0974	0.000012	7,915	1.40E-06	1.55E-06
70001	U60 B-101 HTR	Mercury compounds	7439-97-6	0.0202	0.000003	7,915	2.90E-07	3.21E-07
70001	U60 B-101 HTR	Nickel compounds	7440-02-0	0.1561	0.000020	7,915	2.25E-06	2.49E-06
70001	U60 B-101 HTR	Antimony	7440-36-0	0.0031	0.000000	7,915	4.49E-08	4.97E-08
70001	U60 B-101 HTR	Barium	7440-39-3	0.2243	0.000028	7,915	3.23E-06	3.57E-06
70001	U60 B-101 HTR	Cadmium	7440-43-9	0.0105	0.000001	7,915	1.50E-07	1.67E-07
70001	U60 B-101 HTR	Chromium compounds	7440-47-3	0.0280	0.000004	7,915	4.03E-07	4.46E-07
70001	U60 B-101 HTR	Cobalt compounds	7440-48-4	0.0051	0.000001	7,915	7.38E-08	8.17E-08
70001	U60 B-101 HTR	Copper compounds	7440-50-8	0.0996	0.000013	7,915	1.43E-06	1.59E-06
70001	U60 B-101 HTR	Zinc compounds	7440-66-6	0.6543	0.000083	7,915	9.41E-06	1.04E-05
70001	U60 B-101 HTR	Ammonia	7664-41-7	90.2182	0.011398	7,915	1.30E-03	1.44E-03
70001	U60 B-101 HTR	Sulfuric acid	7664-93-9	84.8745	0.010723	7,915	1.22E-03	1.35E-03
70001	U60 B-101 HTR	Phosphorus	7723-14-0	0.7750	0.000098	7,915	1.11E-05	1.23E-05
70001	U60 B-101 HTR	Hydrogen sulfide	7783-06-4	0.4439	0.000056	7,915	6.38E-06	7.07E-06
70001	U60 B-101 HTR	Chromium, hexavalent	18540-29-9	0.0001	0.000000	7,915	9.66E-10	1.07E-09
70002	U60 B-201 HTR	Lead compounds	1128	0.0504	0.000007	6,744	7.24E-07	9.41E-07
70002	U60 B-201 HTR	Formaldehyde	50-00-0	31.8154	0.004718	6,744	4.58E-04	5.94E-04

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70002	U60 B-201 HTR	Carbon disulfide	75-15-0	0.2063	0.000031	6,744	2.97E-06	3.86E-06
70002	U60 B-201 HTR	Methyl ethyl ketone	78-93-3	0.7772	0.000115	6,744	1.12E-05	1.45E-05
70002	U60 B-201 HTR	Phenanthrene (PAHs)	85-01-8	0.0004	0.000000	6,744	5.91E-09	7.68E-09
70002	U60 B-201 HTR	Naphthalene	91-20-3	0.0012	0.000000	6,744	1.78E-08	2.31E-08
70002	U60 B-201 HTR	2-Methyl naphthalene (PAHs)	91-57-6	0.0004	0.000000	6,744	6.45E-09	8.37E-09
70002	U60 B-201 HTR	Acrolein	107-02-8	2.2975	0.000341	6,744	3.30E-05	4.29E-05
70002	U60 B-201 HTR	Phenol	108-95-2	0.5406	0.000080	6,744	7.78E-06	1.01E-05
70002	U60 B-201 HTR	Propylene	115-07-1	20.2717	0.003006	6,744	2.92E-04	3.79E-04
70002	U60 B-201 HTR	Pyrene	129-00-0	0.0001	0.000000	6,744	1.91E-09	2.48E-09
70002	U60 B-201 HTR	Dibenzofuran	132-64-9	0.0000	0.000000	6,744	8.29E-12	1.08E-11
70002	U60 B-201 HTR	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	6,744	1.01E-09	1.32E-09
70002	U60 B-201 HTR	Fluoranthene (PAHs)	206-44-0	0.0001	0.000000	6,744	2.13E-09	2.77E-09
70002	U60 B-201 HTR	Aluminum	7429-90-5	2.0044	0.000297	6,744	2.88E-05	3.74E-05
70002	U60 B-201 HTR	Manganese compounds	7439-96-5	0.0357	0.000005	6,744	5.14E-07	6.67E-07
70002	U60 B-201 HTR	Mercury compounds	7439-97-6	0.0074	0.000001	6,744	1.06E-07	1.38E-07
70002	U60 B-201 HTR	Nickel compounds	7440-02-0	0.0573	0.000008	6,744	8.24E-07	1.07E-06
70002	U60 B-201 HTR	Antimony	7440-36-0	0.0011	0.000000	6,744	1.65E-08	2.14E-08
70002	U60 B-201 HTR	Barium	7440-39-3	0.0823	0.000012	6,744	1.18E-06	1.54E-06
70002	U60 B-201 HTR	Cadmium	7440-43-9	0.0038	0.000001	6,744	5.52E-08	7.17E-08
70002	U60 B-201 HTR	Chromium compounds	7440-47-3	0.0103	0.000002	6,744	1.48E-07	1.92E-07
70002	U60 B-201 HTR	Cobalt compounds	7440-48-4	0.0019	0.000000	6,744	2.71E-08	3.52E-08
70002	U60 B-201 HTR	Copper compounds	7440-50-8	0.0365	0.000005	6,744	5.26E-07	6.83E-07
70002	U60 B-201 HTR	Zinc compounds	7440-66-6	0.2400	0.000036	6,744	3.45E-06	4.48E-06
70002	U60 B-201 HTR	Ammonia	7664-41-7	33.0880	0.004906	6,744	4.76E-04	6.18E-04
70002	U60 B-201 HTR	Sulfuric acid	7664-93-9	3.7216	0.000552	6,744	5.35E-05	6.95E-05
70002	U60 B-201 HTR	Phosphorus	7723-14-0	0.2842	0.000042	6,744	4.09E-06	5.31E-06
70002	U60 B-201 HTR	Hydrogen sulfide	7783-06-4	0.1628	0.000024	6,744	2.34E-06	3.04E-06
70002	U60 B-201 HTR	Chromium, hexavalent	18540-29-9	0.0000	0.000000	6,744	3.54E-10	4.60E-10
70003	U80 B-101 EAST STACK	Lead compounds	1128	0.0928	0.000011	8,165	1.34E-06	1.43E-06
70003	U80 B-101 EAST STACK	Formaldehyde	50-00-0	58.6414	0.007182	8,165	8.43E-04	9.05E-04
70003	U80 B-101 EAST STACK	Carbon disulfide	75-15-0	0.3803	0.000047	8,165	5.47E-06	5.87E-06
70003	U80 B-101 EAST STACK	Methyl ethyl ketone	78-93-3	1.4325	0.000175	8,165	2.06E-05	2.21E-05

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70003	U80 B-101 EAST STACK	Phenanthrene (PAHs)	85-01-8	0.0008	0.000000	8,165	1.09E-08	1.17E-08
70003	U80 B-101 EAST STACK	Naphthalene	91-20-3	0.0023	0.000000	8,165	3.28E-08	3.52E-08
70003	U80 B-101 EAST STACK	2-Methyl naphthalene (PAHs)	91-57-6	0.0008	0.000000	8,165	1.19E-08	1.27E-08
70003	U80 B-101 EAST STACK	Acrolein	107-02-8	4.2346	0.000519	8,165	6.09E-05	6.53E-05
70003	U80 B-101 EAST STACK	Phenol	108-95-2	0.9964	0.000122	8,165	1.43E-05	1.54E-05
70003	U80 B-101 EAST STACK	Propylene	115-07-1	37.3643	0.004576	8,165	5.37E-04	5.77E-04
70003	U80 B-101 EAST STACK	Pyrene	129-00-0	0.0002	0.000000	8,165	3.52E-09	3.77E-09
70003	U80 B-101 EAST STACK	Dibenzofuran	132-64-9	0.0000	0.000000	8,165	1.53E-11	1.64E-11
70003	U80 B-101 EAST STACK	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	8,165	1.87E-09	2.00E-09
70003	U80 B-101 EAST STACK	Fluoranthene (PAHs)	206-44-0	0.0003	0.000000	8,165	3.93E-09	4.21E-09
70003	U80 B-101 EAST STACK	Aluminum	7429-90-5	3.6944	0.000452	8,165	5.31E-05	5.70E-05
70003	U80 B-101 EAST STACK	Manganese compounds	7439-96-5	0.0658	0.000008	8,165	9.47E-07	1.02E-06
70003	U80 B-101 EAST STACK	Mercury compounds	7439-97-6	0.0136	0.000002	8,165	1.96E-07	2.10E-07
70003	U80 B-101 EAST STACK	Nickel compounds	7440-02-0	0.1056	0.000013	8,165	1.52E-06	1.63E-06
70003	U80 B-101 EAST STACK	Antimony	7440-36-0	0.0021	0.000000	8,165	3.04E-08	3.26E-08
70003	U80 B-101 EAST STACK	Barium	7440-39-3	0.1516	0.000019	8,165	2.18E-06	2.34E-06
70003	U80 B-101 EAST STACK	Cadmium	7440-43-9	0.0071	0.000001	8,165	1.02E-07	1.09E-07
70003	U80 B-101 EAST STACK	Chromium compounds	7440-47-3	0.0189	0.000002	8,165	2.72E-07	2.92E-07
70003	U80 B-101 EAST STACK	Cobalt compounds	7440-48-4	0.0035	0.000000	8,165	4.99E-08	5.35E-08
70003	U80 B-101 EAST STACK	Copper compounds	7440-50-8	0.0674	0.000008	8,165	9.69E-07	1.04E-06
70003	U80 B-101 EAST STACK	Zinc compounds	7440-66-6	0.4423	0.000054	8,165	6.36E-06	6.83E-06
70003	U80 B-101 EAST STACK	Ammonia	7664-41-7	60.9871	0.007469	8,165	8.77E-04	9.41E-04
70003	U80 B-101 EAST STACK	Sulfuric acid	7664-93-9	5.4502	0.000668	8,165	7.84E-05	8.41E-05
70003	U80 B-101 EAST STACK	Phosphorus	7723-14-0	0.5239	0.000064	8,165	7.54E-06	8.08E-06
70003	U80 B-101 EAST STACK	Hydrogen sulfide	7783-06-4	0.3001	0.000037	8,165	4.32E-06	4.63E-06
70003	U80 B-101 EAST STACK	Chromium, hexavalent	18540-29-9	0.0000	0.000000	8,165	6.53E-10	7.01E-10
70004	U80 B-102 EAST STACK	Lead compounds	1128	0.0428	0.000005	8,165	6.16E-07	6.61E-07
70004	U80 B-102 EAST STACK	Formaldehyde	50-00-0	27.0629	0.003315	8,165	3.89E-04	4.18E-04
70004	U80 B-102 EAST STACK	Carbon disulfide	75-15-0	0.1755	0.000021	8,165	2.52E-06	2.71E-06
70004	U80 B-102 EAST STACK	Methyl ethyl ketone	78-93-3	0.6611	0.000081	8,165	9.51E-06	1.02E-05
70004	U80 B-102 EAST STACK	Phenanthrene (PAHs)	85-01-8	0.0003	0.000000	8,165	5.03E-09	5.39E-09
70004	U80 B-102 EAST STACK	Naphthalene	91-20-3	0.0011	0.000000	8,165	1.51E-08	1.62E-08

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70004	U80 B-102 EAST STACK	2-Methyl naphthalene (PAHs)	91-57-6	0.0004	0.000000	8,165	5.48E-09	5.88E-09
70004	U80 B-102 EAST STACK	Acrolein	107-02-8	1.9543	0.000239	8,165	2.81E-05	3.02E-05
70004	U80 B-102 EAST STACK	Phenol	108-95-2	0.4598	0.000056	8,165	6.61E-06	7.10E-06
70004	U80 B-102 EAST STACK	Propylene	115-07-1	17.2436	0.002112	8,165	2.48E-04	2.66E-04
70004	U80 B-102 EAST STACK	Pyrene	129-00-0	0.0001	0.000000	8,165	1.62E-09	1.74E-09
70004	U80 B-102 EAST STACK	Dibenzofuran	132-64-9	0.0000	0.000000	8,165	7.05E-12	7.56E-12
70004	U80 B-102 EAST STACK	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	8,165	8.62E-10	9.25E-10
70004	U80 B-102 EAST STACK	Fluoranthene (PAHs)	206-44-0	0.0001	0.000000	8,165	1.81E-09	1.94E-09
70004	U80 B-102 EAST STACK	Aluminum	7429-90-5	1.7050	0.000209	8,165	2.45E-05	2.63E-05
70004	U80 B-102 EAST STACK	Manganese compounds	7439-96-5	0.0304	0.000004	8,165	4.37E-07	4.69E-07
70004	U80 B-102 EAST STACK	Mercury compounds	7439-97-6	0.0063	0.000001	8,165	9.04E-08	9.70E-08
70004	U80 B-102 EAST STACK	Nickel compounds	7440-02-0	0.0487	0.000006	8,165	7.01E-07	7.52E-07
70004	U80 B-102 EAST STACK	Antimony	7440-36-0	0.0010	0.000000	8,165	1.40E-08	1.50E-08
70004	U80 B-102 EAST STACK	Barium	7440-39-3	0.0700	0.000009	8,165	1.01E-06	1.08E-06
70004	U80 B-102 EAST STACK	Cadmium	7440-43-9	0.0033	0.000000	8,165	4.69E-08	5.04E-08
70004	U80 B-102 EAST STACK	Chromium compounds	7440-47-3	0.0087	0.000001	8,165	1.26E-07	1.35E-07
70004	U80 B-102 EAST STACK	Cobalt compounds	7440-48-4	0.0016	0.000000	8,165	2.30E-08	2.47E-08
70004	U80 B-102 EAST STACK	Copper compounds	7440-50-8	0.0311	0.000004	8,165	4.47E-07	4.80E-07
70004	U80 B-102 EAST STACK	Zinc compounds	7440-66-6	0.2041	0.000025	8,165	2.94E-06	3.15E-06
70004	U80 B-102 EAST STACK	Ammonia	7664-41-7	28.1454	0.003447	8,165	4.05E-04	4.34E-04
70004	U80 B-102 EAST STACK	Sulfuric acid	7664-93-9	3.1627	0.000387	8,165	4.55E-05	4.88E-05
70004	U80 B-102 EAST STACK	Phosphorus	7723-14-0	0.2418	0.000030	8,165	3.48E-06	3.73E-06
70004	U80 B-102 EAST STACK	Hydrogen sulfide	7783-06-4	0.1385	0.000017	8,165	1.99E-06	2.14E-06
70004	U80 B-102 EAST STACK	Chromium, hexavalent	18540-29-9	0.0000	0.000000	8,165	3.01E-10	3.23E-10
70005	U80 B-103 EAST STACK	Lead compounds	1128	0.0511	0.000006	8,165	7.34E-07	7.88E-07
70005	U80 B-103 EAST STACK	Formaldehyde	50-00-0	32.2569	0.003951	8,165	4.64E-04	4.98E-04
70005	U80 B-103 EAST STACK	Carbon disulfide	75-15-0	0.2092	0.000026	8,165	3.01E-06	3.23E-06
70005	U80 B-103 EAST STACK	Methyl ethyl ketone	78-93-3	0.7880	0.000097	8,165	1.13E-05	1.22E-05
70005	U80 B-103 EAST STACK	Phenanthrene (PAHs)	85-01-8	0.0004	0.000000	8,165	5.99E-09	6.43E-09
70005	U80 B-103 EAST STACK	Naphthalene	91-20-3	0.0013	0.000000	8,165	1.80E-08	1.93E-08
70005	U80 B-103 EAST STACK	2-Methyl naphthalene (PAHs)	91-57-6	0.0005	0.000000	8,165	6.54E-09	7.01E-09
70005	U80 B-103 EAST STACK	Acrolein	107-02-8	2.3293	0.000285	8,165	3.35E-05	3.59E-05

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70005	U80 B-103 EAST STACK	Phenol	108-95-2	0.5481	0.000067	8,165	7.88E-06	8.46E-06
70005	U80 B-103 EAST STACK	Propylene	115-07-1	20.5530	0.002517	8,165	2.96E-04	3.17E-04
70005	U80 B-103 EAST STACK	Pyrene	129-00-0	0.0001	0.000000	8,165	1.94E-09	2.08E-09
70005	U80 B-103 EAST STACK	Dibenzofuran	132-64-9	0.0000	0.000000	8,165	8.40E-12	9.02E-12
70005	U80 B-103 EAST STACK	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	8,165	1.03E-09	1.10E-09
70005	U80 B-103 EAST STACK	Fluoranthene (PAHs)	206-44-0	0.0002	0.000000	8,165	2.16E-09	2.32E-09
70005	U80 B-103 EAST STACK	Aluminum	7429-90-5	2.0322	0.000249	8,165	2.92E-05	3.14E-05
70005	U80 B-103 EAST STACK	Manganese compounds	7439-96-5	0.0362	0.000004	8,165	5.21E-07	5.59E-07
70005	U80 B-103 EAST STACK	Mercury compounds	7439-97-6	0.0075	0.000001	8,165	1.08E-07	1.16E-07
70005	U80 B-103 EAST STACK	Nickel compounds	7440-02-0	0.0581	0.000007	8,165	8.35E-07	8.96E-07
70005	U80 B-103 EAST STACK	Antimony	7440-36-0	0.0012	0.000000	8,165	1.67E-08	1.79E-08
70005	U80 B-103 EAST STACK	Barium	7440-39-3	0.0834	0.000010	8,165	1.20E-06	1.29E-06
70005	U80 B-103 EAST STACK	Cadmium	7440-43-9	0.0039	0.000000	8,165	5.59E-08	6.00E-08
70005	U80 B-103 EAST STACK	Chromium compounds	7440-47-3	0.0104	0.000001	8,165	1.50E-07	1.61E-07
70005	U80 B-103 EAST STACK	Cobalt compounds	7440-48-4	0.0019	0.000000	8,165	2.74E-08	2.94E-08
70005	U80 B-103 EAST STACK	Copper compounds	7440-50-8	0.0370	0.000005	8,165	5.33E-07	5.72E-07
70005	U80 B-103 EAST STACK	Zinc compounds	7440-66-6	0.2433	0.000030	8,165	3.50E-06	3.75E-06
70005	U80 B-103 EAST STACK	Ammonia	7664-41-7	33.5472	0.004109	8,165	4.83E-04	5.18E-04
70005	U80 B-103 EAST STACK	Sulfuric acid	7664-93-9	2.8848	0.000353	8,165	4.15E-05	4.45E-05
70005	U80 B-103 EAST STACK	Phosphorus	7723-14-0	0.2882	0.000035	8,165	4.15E-06	4.45E-06
70005	U80 B-103 EAST STACK	Hydrogen sulfide	7783-06-4	0.1651	0.000020	8,165	2.37E-06	2.55E-06
70005	U80 B-103 EAST STACK	Chromium, hexavalent	18540-29-9	0.0000	0.000000	8,165	3.59E-10	3.85E-10
70006	U80 B-104 EAST STACK	Lead compounds	1128	0.0597	0.000007	8,165	8.58E-07	9.21E-07
70006	U80 B-104 EAST STACK	Formaldehyde	50-00-0	37.6983	0.004617	8,165	5.42E-04	5.82E-04
70006	U80 B-104 EAST STACK	Carbon disulfide	75-15-0	0.2445	0.000030	8,165	3.52E-06	3.77E-06
70006	U80 B-104 EAST STACK	Methyl ethyl ketone	78-93-3	0.9209	0.000113	8,165	1.32E-05	1.42E-05
70006	U80 B-104 EAST STACK	Phenanthrene (PAHs)	85-01-8	0.0005	0.000000	8,165	7.00E-09	7.51E-09
70006	U80 B-104 EAST STACK	Naphthalene	91-20-3	0.0015	0.000000	8,165	2.11E-08	2.26E-08
70006	U80 B-104 EAST STACK	2-Methyl naphthalene (PAHs)	91-57-6	0.0005	0.000000	8,165	7.64E-09	8.19E-09
70006	U80 B-104 EAST STACK	Acrolein	107-02-8	2.7223	0.000333	8,165	3.92E-05	4.20E-05
70006	U80 B-104 EAST STACK	Phenol	108-95-2	0.6405	0.000078	8,165	9.21E-06	9.88E-06
70006	U80 B-104 EAST STACK	Propylene	115-07-1	24.0201	0.002942	8,165	3.45E-04	3.71E-04

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70006	U80 B-104 EAST STACK	Pyrene	129-00-0	0.0002	0.000000	8,165	2.26E-09	2.43E-09
70006	U80 B-104 EAST STACK	Dibenzofuran	132-64-9	0.0000	0.000000	8,165	9.82E-12	1.05E-11
70006	U80 B-104 EAST STACK	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	8,165	1.20E-09	1.29E-09
70006	U80 B-104 EAST STACK	Fluoranthene (PAHs)	206-44-0	0.0002	0.000000	8,165	2.53E-09	2.71E-09
70006	U80 B-104 EAST STACK	Aluminum	7429-90-5	2.3750	0.000291	8,165	3.42E-05	3.66E-05
70006	U80 B-104 EAST STACK	Manganese compounds	7439-96-5	0.0423	0.000005	8,165	6.09E-07	6.53E-07
70006	U80 B-104 EAST STACK	Mercury compounds	7439-97-6	0.0088	0.000001	8,165	1.26E-07	1.35E-07
70006	U80 B-104 EAST STACK	Nickel compounds	7440-02-0	0.0679	0.000008	8,165	9.76E-07	1.05E-06
70006	U80 B-104 EAST STACK	Antimony	7440-36-0	0.0014	0.000000	8,165	1.95E-08	2.09E-08
70006	U80 B-104 EAST STACK	Barium	7440-39-3	0.0975	0.000012	8,165	1.40E-06	1.50E-06
70006	U80 B-104 EAST STACK	Cadmium	7440-43-9	0.0045	0.000001	8,165	6.54E-08	7.01E-08
70006	U80 B-104 EAST STACK	Chromium compounds	7440-47-3	0.0122	0.000001	8,165	1.75E-07	1.88E-07
70006	U80 B-104 EAST STACK	Cobalt compounds	7440-48-4	0.0022	0.000000	8,165	3.21E-08	3.44E-08
70006	U80 B-104 EAST STACK	Copper compounds	7440-50-8	0.0433	0.000005	8,165	6.23E-07	6.68E-07
70006	U80 B-104 EAST STACK	Zinc compounds	7440-66-6	0.2844	0.000035	8,165	4.09E-06	4.39E-06
70006	U80 B-104 EAST STACK	Ammonia	7664-41-7	39.2062	0.004802	8,165	5.64E-04	6.05E-04
70006	U80 B-104 EAST STACK	Sulfuric acid	7664-93-9	3.5515	0.000435	8,165	5.11E-05	5.48E-05
70006	U80 B-104 EAST STACK	Phosphorus	7723-14-0	0.3368	0.000041	8,165	4.84E-06	5.20E-06
70006	U80 B-104 EAST STACK	Hydrogen sulfide	7783-06-4	0.1929	0.000024	8,165	2.77E-06	2.98E-06
70006	U80 B-104 EAST STACK	Chromium, hexavalent	18540-29-9	0.0000	0.000000	8,165	4.20E-10	4.50E-10
70007	U80 B-105 EAST STACK	Lead compounds	1128	0.0105	0.000001	8,165	1.51E-07	1.62E-07
70007	U80 B-105 EAST STACK	Formaldehyde	50-00-0	6.6249	0.000811	8,165	9.53E-05	1.02E-04
70007	U80 B-105 EAST STACK	Carbon disulfide	75-15-0	0.0430	0.000005	8,165	6.18E-07	6.63E-07
70007	U80 B-105 EAST STACK	Methyl ethyl ketone	78-93-3	0.1618	0.000020	8,165	2.33E-06	2.50E-06
70007	U80 B-105 EAST STACK	Phenanthrene (PAHs)	85-01-8	0.0001	0.000000	8,165	1.23E-09	1.32E-09
70007	U80 B-105 EAST STACK	Naphthalene	91-20-3	0.0003	0.000000	8,165	3.70E-09	3.97E-09
70007	U80 B-105 EAST STACK	2-Methyl naphthalene (PAHs)	91-57-6	0.0001	0.000000	8,165	1.34E-09	1.44E-09
70007	U80 B-105 EAST STACK	Acrolein	107-02-8	0.4784	0.000059	8,165	6.88E-06	7.38E-06
70007	U80 B-105 EAST STACK	Phenol	108-95-2	0.1126	0.000014	8,165	1.62E-06	1.74E-06
70007	U80 B-105 EAST STACK	Propylene	115-07-1	4.2212	0.000517	8,165	6.07E-05	6.51E-05
70007	U80 B-105 EAST STACK	Pyrene	129-00-0	0.0000	0.000000	8,165	3.97E-10	4.26E-10
70007	U80 B-105 EAST STACK	Dibenzofuran	132-64-9	0.0000	0.000000	8,165	1.73E-12	1.85E-12

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70007	U80 B-105 EAST STACK	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0000	0.000000	8,165	2.11E-10	2.26E-10
70007	U80 B-105 EAST STACK	Fluoranthene (PAHs)	206-44-0	0.0000	0.000000	8,165	4.44E-10	4.76E-10
70007	U80 B-105 EAST STACK	Aluminum	7429-90-5	0.4174	0.000051	8,165	6.00E-06	6.44E-06
70007	U80 B-105 EAST STACK	Manganese compounds	7439-96-5	0.0074	0.000001	8,165	1.07E-07	1.15E-07
70007	U80 B-105 EAST STACK	Mercury compounds	7439-97-6	0.0015	0.000000	8,165	2.21E-08	2.37E-08
70007	U80 B-105 EAST STACK	Nickel compounds	7440-02-0	0.0119	0.000001	8,165	1.72E-07	1.84E-07
70007	U80 B-105 EAST STACK	Antimony	7440-36-0	0.0002	0.000000	8,165	3.43E-09	3.68E-09
70007	U80 B-105 EAST STACK	Barium	7440-39-3	0.0171	0.000002	8,165	2.46E-07	2.64E-07
70007	U80 B-105 EAST STACK	Cadmium	7440-43-9	0.0008	0.000000	8,165	1.15E-08	1.23E-08
70007	U80 B-105 EAST STACK	Chromium compounds	7440-47-3	0.0021	0.000000	8,165	3.08E-08	3.30E-08
70007	U80 B-105 EAST STACK	Cobalt compounds	7440-48-4	0.0004	0.000000	8,165	5.64E-09	6.05E-09
70007	U80 B-105 EAST STACK	Copper compounds	7440-50-8	0.0076	0.000001	8,165	1.09E-07	1.17E-07
70007	U80 B-105 EAST STACK	Zinc compounds	7440-66-6	0.0500	0.000006	8,165	7.19E-07	7.71E-07
70007	U80 B-105 EAST STACK	Ammonia	7664-41-7	6.8899	0.000844	8,165	9.91E-05	1.06E-04
70007	U80 B-105 EAST STACK	Sulfuric acid	7664-93-9	0.7486	0.000092	8,165	1.08E-05	1.16E-05
70007	U80 B-105 EAST STACK	Phosphorus	7723-14-0	0.0592	0.000007	8,165	8.51E-07	9.13E-07
70007	U80 B-105 EAST STACK	Hydrogen sulfide	7783-06-4	0.0339	0.000004	8,165	4.88E-07	5.23E-07
70007	U80 B-105 EAST STACK	Chromium, hexavalent	18540-29-9	0.0000	0.000000	8,165	7.38E-11	7.92E-11
70008	U79 B-201 HTR	Lead compounds	1128	0.0563	0.000007	8,165	8.10E-07	8.69E-07
70008	U79 B-201 HTR	Formaldehyde	50-00-0	35.5858	0.004358	8,165	5.12E-04	5.49E-04
70008	U79 B-201 HTR	Carbon disulfide	75-15-0	0.2308	0.000028	8,165	3.32E-06	3.56E-06
70008	U79 B-201 HTR	Methyl ethyl ketone	78-93-3	0.8693	0.000106	8,165	1.25E-05	1.34E-05
70008	U79 B-201 HTR	Phenanthrene (PAHs)	85-01-8	0.0005	0.000000	8,165	6.61E-09	7.09E-09
70008	U79 B-201 HTR	Naphthalene	91-20-3	0.0014	0.000000	8,165	1.99E-08	2.13E-08
70008	U79 B-201 HTR	2-Methyl naphthalene (PAHs)	91-57-6	0.0005	0.000000	8,165	7.21E-09	7.73E-09
70008	U79 B-201 HTR	Acrolein	107-02-8	2.5697	0.000315	8,165	3.70E-05	3.97E-05
70008	U79 B-201 HTR	Phenol	108-95-2	0.6046	0.000074	8,165	8.70E-06	9.33E-06
70008	U79 B-201 HTR	Propylene	115-07-1	22.6741	0.002777	8,165	3.26E-04	3.50E-04
70008	U79 B-201 HTR	Pyrene	129-00-0	0.0001	0.000000	8,165	2.14E-09	2.29E-09
70008	U79 B-201 HTR	Dibenzofuran	132-64-9	0.0000	0.000000	8,165	9.27E-12	9.95E-12
70008	U79 B-201 HTR	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	8,165	1.13E-09	1.22E-09
70008	U79 B-201 HTR	Fluoranthene (PAHs)	206-44-0	0.0002	0.000000	8,165	2.38E-09	2.56E-09

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70008	U79 B-201 HTR	Aluminum	7429-90-5	2.2419	0.000275	8,165	3.22E-05	3.46E-05
70008	U79 B-201 HTR	Manganese compounds	7439-96-5	0.0400	0.000005	8,165	5.75E-07	6.17E-07
70008	U79 B-201 HTR	Mercury compounds	7439-97-6	0.0083	0.000001	8,165	1.19E-07	1.28E-07
70008	U79 B-201 HTR	Nickel compounds	7440-02-0	0.0641	0.000008	8,165	9.21E-07	9.88E-07
70008	U79 B-201 HTR	Antimony	7440-36-0	0.0013	0.000000	8,165	1.84E-08	1.98E-08
70008	U79 B-201 HTR	Barium	7440-39-3	0.0920	0.000011	8,165	1.32E-06	1.42E-06
70008	U79 B-201 HTR	Cadmium	7440-43-9	0.0043	0.000001	8,165	6.17E-08	6.62E-08
70008	U79 B-201 HTR	Chromium compounds	7440-47-3	0.0115	0.000001	8,165	1.65E-07	1.77E-07
70008	U79 B-201 HTR	Cobalt compounds	7440-48-4	0.0021	0.000000	8,165	3.03E-08	3.25E-08
70008	U79 B-201 HTR	Copper compounds	7440-50-8	0.0409	0.000005	8,165	5.88E-07	6.31E-07
70008	U79 B-201 HTR	Zinc compounds	7440-66-6	0.2684	0.000033	8,165	3.86E-06	4.14E-06
70008	U79 B-201 HTR	Ammonia	7664-41-7	37.0092	0.004533	8,165	5.32E-04	5.71E-04
70008	U79 B-201 HTR	Sulfuric acid	7664-93-9	29.6870	0.003636	8,165	4.27E-04	4.58E-04
70008	U79 B-201 HTR	Phosphorus	7723-14-0	0.3179	0.000039	8,165	4.57E-06	4.91E-06
70008	U79 B-201 HTR	Hydrogen sulfide	7783-06-4	0.1821	0.000022	8,165	2.62E-06	2.81E-06
70008	U79 B-201 HTR	Chromium, hexavalent	18540-29-9	0.0000	0.000000	8,165	3.96E-10	4.25E-10
70009	U89 B-101 HTR (HLNX, RE)	Lead compounds	1128	0.0490	0.000006	8,208	7.05E-07	7.52E-07
70009	U89 B-101 HTR (HLNX, RE)	Formaldehyde	50-00-0	30.9475	0.003770	8,208	4.45E-04	4.75E-04
70009	U89 B-101 HTR (HLNX, RE)	Carbon disulfide	75-15-0	0.2007	0.000024	8,208	2.89E-06	3.08E-06
70009	U89 B-101 HTR (HLNX, RE)	Methyl ethyl ketone	78-93-3	0.7560	0.000092	8,208	1.09E-05	1.16E-05
70009	U89 B-101 HTR (HLNX, RE)	Phenanthrene (PAHs)	85-01-8	0.0004	0.000000	8,208	5.75E-09	6.14E-09
70009	U89 B-101 HTR (HLNX, RE)	Naphthalene	91-20-3	0.0012	0.000000	8,208	1.73E-08	1.85E-08
70009	U89 B-101 HTR (HLNX, RE)	2-Methyl naphthalene (PAHs)	91-57-6	0.0004	0.000000	8,208	6.27E-09	6.69E-09
70009	U89 B-101 HTR (HLNX, RE)	Acrolein	107-02-8	2.2348	0.000272	8,208	3.21E-05	3.43E-05
70009	U89 B-101 HTR (HLNX, RE)	Phenol	108-95-2	0.5258	0.000064	8,208	7.56E-06	8.07E-06
70009	U89 B-101 HTR (HLNX, RE)	Propylene	115-07-1	19.7187	0.002402	8,208	2.84E-04	3.03E-04
70009	U89 B-101 HTR (HLNX, RE)	Pyrene	129-00-0	0.0001	0.000000	8,208	1.86E-09	1.98E-09
70009	U89 B-101 HTR (HLNX, RE)	Dibenzofuran	132-64-9	0.0000	0.000000	8,208	8.06E-12	8.61E-12
70009	U89 B-101 HTR (HLNX, RE)	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	8,208	9.86E-10	1.05E-09
70009	U89 B-101 HTR (HLNX, RE)	Fluoranthene (PAHs)	206-44-0	0.0001	0.000000	8,208	2.07E-09	2.21E-09
70009	U89 B-101 HTR (HLNX, RE)	Aluminum	7429-90-5	1.9497	0.000238	8,208	2.80E-05	2.99E-05
70009	U89 B-101 HTR (HLNX, RE)	Manganese compounds	7439-96-5	0.0347	0.000004	8,208	5.00E-07	5.33E-07

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70009	U89 B-101 HTR (HLNX, RE)	Mercury compounds	7439-97-6	0.0072	0.000001	8,208	1.03E-07	1.10E-07
70009	U89 B-101 HTR (HLNX, RE)	Nickel compounds	7440-02-0	0.0557	0.000007	8,208	8.01E-07	8.55E-07
70009	U89 B-101 HTR (HLNX, RE)	Antimony	7440-36-0	0.0011	0.000000	8,208	1.60E-08	1.71E-08
70009	U89 B-101 HTR (HLNX, RE)	Barium	7440-39-3	0.0800	0.000010	8,208	1.15E-06	1.23E-06
70009	U89 B-101 HTR (HLNX, RE)	Cadmium	7440-43-9	0.0037	0.000000	8,208	5.37E-08	5.73E-08
70009	U89 B-101 HTR (HLNX, RE)	Chromium compounds	7440-47-3	0.0100	0.000001	8,208	1.44E-07	1.53E-07
70009	U89 B-101 HTR (HLNX, RE)	Cobalt compounds	7440-48-4	0.0018	0.000000	8,208	2.63E-08	2.81E-08
70009	U89 B-101 HTR (HLNX, RE)	Copper compounds	7440-50-8	0.0355	0.000004	8,208	5.11E-07	5.46E-07
70009	U89 B-101 HTR (HLNX, RE)	Zinc compounds	7440-66-6	0.2334	0.000028	8,208	3.36E-06	3.58E-06
70009	U89 B-101 HTR (HLNX, RE)	Ammonia	7664-41-7	32.1854	0.003921	8,208	4.63E-04	4.94E-04
70009	U89 B-101 HTR (HLNX, RE)	Sulfuric acid	7664-93-9	37.5665	0.004577	8,208	5.40E-04	5.77E-04
70009	U89 B-101 HTR (HLNX, RE)	Phosphorus	7723-14-0	0.2765	0.000034	8,208	3.98E-06	4.24E-06
70009	U89 B-101 HTR (HLNX, RE)	Hydrogen sulfide	7783-06-4	0.1584	0.000019	8,208	2.28E-06	2.43E-06
70009	U89 B-101 HTR (HLNX, RE)	Chromium, hexavalent	18540-29-9	0.0000	0.000000	8,208	3.45E-10	3.68E-10
70010	U90-B-401 HTR	Lead compounds	1128	1.8492	0.000213	8,681	2.66E-05	2.68E-05
70010	U90-B-401 HTR	Formaldehyde	50-00-0	5.7006	0.000657	8,681	8.20E-05	8.27E-05
70010	U90-B-401 HTR	Benzo(a)pyrene	50-32-8	0.0277	0.000003	8,681	3.99E-07	4.03E-07
70010	U90-B-401 HTR	Dibenz(a,h)anthracene (PAHs)	53-70-3	0.0007	0.000000	8,681	1.05E-08	1.06E-08
70010	U90-B-401 HTR	Benz(a)anthracene (PAHs)	56-55-3	0.0107	0.000001	8,681	1.54E-07	1.55E-07
70010	U90-B-401 HTR	Benzene	71-43-2	2.6881	0.000310	8,681	3.87E-05	3.90E-05
70010	U90-B-401 HTR	Acetaldehyde	75-07-0	1.4367	0.000166	8,681	2.07E-05	2.09E-05
70010	U90-B-401 HTR	Phenanthrene (PAHs)	85-01-8	0.0156	0.000002	8,681	2.24E-07	2.26E-07
70010	U90-B-401 HTR	Naphthalene	91-20-3	0.1390	0.000016	8,681	2.00E-06	2.02E-06
70010	U90-B-401 HTR	Ethyl benzene	100-41-4	3.1979	0.000368	8,681	4.60E-05	4.64E-05
70010	U90-B-401 HTR	Acrolein	107-02-8	1.2514	0.000144	8,681	1.80E-05	1.82E-05
70010	U90-B-401 HTR	Toluene	108-88-3	12.2818	0.001415	8,681	1.77E-04	1.78E-04
70010	U90-B-401 HTR	Phenol	108-95-2	1.9465	0.000224	8,681	2.80E-05	2.83E-05
70010	U90-B-401 HTR	Hexane	110-54-3	2.1319	0.000246	8,681	3.07E-05	3.09E-05
70010	U90-B-401 HTR	Propylene	115-07-1	245.6354	0.028296	8,681	3.53E-03	3.57E-03
70010	U90-B-401 HTR	Anthracene	120-12-7	0.0023	0.000000	8,681	3.29E-08	3.32E-08
70010	U90-B-401 HTR	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0006	0.000000	8,681	9.10E-09	9.18E-09
70010	U90-B-401 HTR	Indeno(1,2,3-cd)pyrene (PAHs)	193-39-5	0.0346	0.000004	8,681	4.97E-07	5.01E-07

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70010	U90-B-401 HTR	Benzo(b)fluoranthene (PAHs)	205-99-2	0.0131	0.000002	8,681	1.89E-07	1.91E-07
70010	U90-B-401 HTR	Fluoranthene (PAHs)	206-44-0	0.0042	0.000000	8,681	6.09E-08	6.14E-08
70010	U90-B-401 HTR	Benzo(k)fluoranthene (PAHs)	207-08-9	0.0083	0.000001	8,681	1.19E-07	1.20E-07
70010	U90-B-401 HTR	Chrysene (PAHs)	218-01-9	0.0008	0.000000	8,681	1.12E-08	1.13E-08
70010	U90-B-401 HTR	Xylenes (mixed isomers)	1330-20-7	9.1302	0.001052	8,681	1.31E-04	1.33E-04
70010	U90-B-401 HTR	Manganese compounds	7439-96-5	2.3845	0.000275	8,681	3.43E-05	3.46E-05
70010	U90-B-401 HTR	Mercury compounds	7439-97-6	0.0876	0.000010	8,681	1.26E-06	1.27E-06
70010	U90-B-401 HTR	Nickel compounds	7440-02-0	3.6498	0.000420	8,681	5.25E-05	5.30E-05
70010	U90-B-401 HTR	Antimony	7440-36-0	0.2531	0.000029	8,681	3.64E-06	3.67E-06
70010	U90-B-401 HTR	Arsenic	7440-38-2	0.3504	0.000040	8,681	5.04E-06	5.09E-06
70010	U90-B-401 HTR	Barium	7440-39-3	2.8225	0.000325	8,681	4.06E-05	4.10E-05
70010	U90-B-401 HTR	Beryllium	7440-41-7	0.0633	0.000007	8,681	9.10E-07	9.18E-07
70010	U90-B-401 HTR	Cadmium	7440-43-9	0.7300	0.000084	8,681	1.05E-05	1.06E-05
70010	U90-B-401 HTR	Chromium compounds	7440-47-3	2.7738	0.000320	8,681	3.99E-05	4.03E-05
70010	U90-B-401 HTR	Copper compounds	7440-50-8	2.2872	0.000263	8,681	3.29E-05	3.32E-05
70010	U90-B-401 HTR	Zinc compounds	7440-66-6	25.7917	0.002971	8,681	3.71E-04	3.74E-04
70010	U90-B-401 HTR	Ammonia	7664-41-7	1,483.0815	0.170842	8,681	2.13E-02	2.15E-02
70010	U90-B-401 HTR	Sulfuric acid	7664-93-9	76.5017	0.008813	8,681	1.10E-03	1.11E-03
70010	U90-B-401 HTR	Hydrogen sulfide	7783-06-4	41.3641	0.004765	8,681	5.95E-04	6.00E-04
70011	U90 B-202 HTR	Lead compounds	1128	0.2238	0.000026	8,681	3.22E-06	3.25E-06
70011	U90 B-202 HTR	Formaldehyde	50-00-0	141.3966	0.016288	8,681	2.03E-03	2.05E-03
70011	U90 B-202 HTR	Carbon disulfide	75-15-0	0.9171	0.000106	8,681	1.32E-05	1.33E-05
70011	U90 B-202 HTR	Methyl ethyl ketone	78-93-3	3.4541	0.000398	8,681	4.97E-05	5.01E-05
70011	U90 B-202 HTR	Phenanthrene (PAHs)	85-01-8	0.0018	0.000000	8,681	2.63E-08	2.65E-08
70011	U90 B-202 HTR	Naphthalene	91-20-3	0.0055	0.000001	8,681	7.90E-08	7.97E-08
70011	U90 B-202 HTR	2-Methyl naphthalene (PAHs)	91-57-6	0.0020	0.000000	8,681	2.86E-08	2.89E-08
70011	U90 B-202 HTR	Acrolein	107-02-8	10.2106	0.001176	8,681	1.47E-04	1.48E-04
70011	U90 B-202 HTR	Phenol	108-95-2	2.4025	0.000277	8,681	3.46E-05	3.49E-05
70011	U90 B-202 HTR	Propylene	115-07-1	90.0932	0.010378	8,681	1.30E-03	1.31E-03
70011	U90 B-202 HTR	Pyrene	129-00-0	0.0006	0.000000	8,681	8.48E-09	8.56E-09
70011	U90 B-202 HTR	Dibenzofuran	132-64-9	0.0000	0.000000	8,681	3.68E-11	3.72E-11
70011	U90 B-202 HTR	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0003	0.000000	8,681	4.50E-09	4.54E-09

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70011	U90 B-202 HTR	Fluoranthene (PAHs)	206-44-0	0.0007	0.000000	8,681	9.47E-09	9.56E-09
70011	U90 B-202 HTR	Aluminum	7429-90-5	8.9080	0.001026	8,681	1.28E-04	1.29E-04
70011	U90 B-202 HTR	Manganese compounds	7439-96-5	0.1588	0.000018	8,681	2.28E-06	2.30E-06
70011	U90 B-202 HTR	Mercury compounds	7439-97-6	0.0328	0.000004	8,681	4.72E-07	4.77E-07
70011	U90 B-202 HTR	Nickel compounds	7440-02-0	0.2545	0.000029	8,681	3.66E-06	3.69E-06
70011	U90 B-202 HTR	Antimony	7440-36-0	0.0051	0.000001	8,681	7.32E-08	7.39E-08
70011	U90 B-202 HTR	Barium	7440-39-3	0.3656	0.000042	8,681	5.26E-06	5.31E-06
70011	U90 B-202 HTR	Cadmium	7440-43-9	0.0170	0.000002	8,681	2.45E-07	2.47E-07
70011	U90 B-202 HTR	Chromium compounds	7440-47-3	0.0457	0.000005	8,681	6.57E-07	6.63E-07
70011	U90 B-202 HTR	Cobalt compounds	7440-48-4	0.0084	0.000001	8,681	1.20E-07	1.21E-07
70011	U90 B-202 HTR	Copper compounds	7440-50-8	0.1624	0.000019	8,681	2.34E-06	2.36E-06
70011	U90 B-202 HTR	Zinc compounds	7440-66-6	1.0665	0.000123	8,681	1.53E-05	1.55E-05
70011	U90 B-202 HTR	Ammonia	7664-41-7	147.0524	0.016940	8,681	2.12E-03	2.13E-03
70011	U90 B-202 HTR	Sulfuric acid	7664-93-9	67.5936	0.007786	8,681	9.72E-04	9.81E-04
70011	U90 B-202 HTR	Phosphorus	7723-14-0	1.2633	0.000146	8,681	1.82E-05	1.83E-05
70011	U90 B-202 HTR	Hydrogen sulfide	7783-06-4	0.7235	0.000083	8,681	1.04E-05	1.05E-05
70011	U90 B-202 HTR	Chromium, hexavalent	18540-29-9	0.0001	0.000000	8,681	1.57E-09	1.59E-09
70012	U90 B-203 HTR	Lead compounds	1128	0.0431	0.000005	8,681	6.20E-07	6.26E-07
70012	U90 B-203 HTR	Formaldehyde	50-00-0	27.2270	0.003136	8,681	3.92E-04	3.95E-04
70012	U90 B-203 HTR	Carbon disulfide	75-15-0	0.1766	0.000020	8,681	2.54E-06	2.56E-06
70012	U90 B-203 HTR	Methyl ethyl ketone	78-93-3	0.6651	0.000077	8,681	9.57E-06	9.65E-06
70012	U90 B-203 HTR	Phenanthrene (PAHs)	85-01-8	0.0004	0.000000	8,681	5.06E-09	5.10E-09
70012	U90 B-203 HTR	Naphthalene	91-20-3	0.0011	0.000000	8,681	1.52E-08	1.54E-08
70012	U90 B-203 HTR	2-Methyl naphthalene (PAHs)	91-57-6	0.0004	0.000000	8,681	5.52E-09	5.57E-09
70012	U90 B-203 HTR	Acrolein	107-02-8	1.9661	0.000226	8,681	2.83E-05	2.85E-05
70012	U90 B-203 HTR	Phenol	108-95-2	0.4626	0.000053	8,681	6.65E-06	6.71E-06
70012	U90 B-203 HTR	Propylene	115-07-1	17.3481	0.001998	8,681	2.50E-04	2.52E-04
70012	U90 B-203 HTR	Pyrene	129-00-0	0.0001	0.000000	8,681	1.63E-09	1.65E-09
70012	U90 B-203 HTR	Dibenzofuran	132-64-9	0.0000	0.000000	8,681	7.09E-12	7.16E-12
70012	U90 B-203 HTR	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	8,681	8.67E-10	8.75E-10
70012	U90 B-203 HTR	Fluoranthene (PAHs)	206-44-0	0.0001	0.000000	8,681	1.82E-09	1.84E-09
70012	U90 B-203 HTR	Aluminum	7429-90-5	1.7153	0.000198	8,681	2.47E-05	2.49E-05

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70012	U90 B-203 HTR	Manganese compounds	7439-96-5	0.0306	0.000004	8,681	4.40E-07	4.44E-07
70012	U90 B-203 HTR	Mercury compounds	7439-97-6	0.0063	0.000001	8,681	9.10E-08	9.18E-08
70012	U90 B-203 HTR	Nickel compounds	7440-02-0	0.0490	0.000006	8,681	7.05E-07	7.11E-07
70012	U90 B-203 HTR	Antimony	7440-36-0	0.0010	0.000000	8,681	1.41E-08	1.42E-08
70012	U90 B-203 HTR	Barium	7440-39-3	0.0704	0.000008	8,681	1.01E-06	1.02E-06
70012	U90 B-203 HTR	Cadmium	7440-43-9	0.0033	0.000000	8,681	4.72E-08	4.76E-08
70012	U90 B-203 HTR	Chromium compounds	7440-47-3	0.0088	0.000001	8,681	1.26E-07	1.28E-07
70012	U90 B-203 HTR	Cobalt compounds	7440-48-4	0.0016	0.000000	8,681	2.32E-08	2.34E-08
70012	U90 B-203 HTR	Copper compounds	7440-50-8	0.0313	0.000004	8,681	4.50E-07	4.54E-07
70012	U90 B-203 HTR	Zinc compounds	7440-66-6	0.2054	0.000024	8,681	2.95E-06	2.98E-06
70012	U90 B-203 HTR	Ammonia	7664-41-7	28.3160	0.003262	8,681	4.07E-04	4.11E-04
70012	U90 B-203 HTR	Sulfuric acid	7664-93-9	1.3017	0.000150	8,681	1.87E-05	1.89E-05
70012	U90 B-203 HTR	Phosphorus	7723-14-0	0.2433	0.000028	8,681	3.50E-06	3.53E-06
70012	U90 B-203 HTR	Hydrogen sulfide	7783-06-4	0.1393	0.000016	8,681	2.00E-06	2.02E-06
70012	U90 B-203 HTR	Chromium, hexavalent	18540-29-9	0.0000	0.000000	8,681	3.03E-10	3.06E-10
70013	U100 H-1 HTR	Lead compounds	1128	0.0722	0.000010	6,972	1.04E-06	1.31E-06
70013	U100 H-1 HTR	Formaldehyde	50-00-0	45.6268	0.006544	6,972	6.56E-04	8.25E-04
70013	U100 H-1 HTR	Carbon disulfide	75-15-0	0.2959	0.000042	6,972	4.26E-06	5.35E-06
70013	U100 H-1 HTR	Methyl ethyl ketone	78-93-3	1.1146	0.000160	6,972	1.60E-05	2.01E-05
70013	U100 H-1 HTR	Phenanthrene (PAHs)	85-01-8	0.0006	0.000000	6,972	8.48E-09	1.06E-08
70013	U100 H-1 HTR	Naphthalene	91-20-3	0.0018	0.000000	6,972	2.55E-08	3.20E-08
70013	U100 H-1 HTR	2-Methyl naphthalene (PAHs)	91-57-6	0.0006	0.000000	6,972	9.24E-09	1.16E-08
70013	U100 H-1 HTR	Acrolein	107-02-8	3.2948	0.000473	6,972	4.74E-05	5.95E-05
70013	U100 H-1 HTR	Phenol	108-95-2	0.7752	0.000111	6,972	1.12E-05	1.40E-05
70013	U100 H-1 HTR	Propylene	115-07-1	29.0719	0.004170	6,972	4.18E-04	5.25E-04
70013	U100 H-1 HTR	Pyrene	129-00-0	0.0002	0.000000	6,972	2.74E-09	3.44E-09
70013	U100 H-1 HTR	Dibenzofuran	132-64-9	0.0000	0.000000	6,972	1.19E-11	1.49E-11
70013	U100 H-1 HTR	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	6,972	1.45E-09	1.83E-09
70013	U100 H-1 HTR	Fluoranthene (PAHs)	206-44-0	0.0002	0.000000	6,972	3.06E-09	3.84E-09
70013	U100 H-1 HTR	Aluminum	7429-90-5	2.8745	0.000412	6,972	4.13E-05	5.19E-05
70013	U100 H-1 HTR	Manganese compounds	7439-96-5	0.0512	0.000007	6,972	7.37E-07	9.26E-07
70013	U100 H-1 HTR	Mercury compounds	7439-97-6	0.0106	0.000002	6,972	1.52E-07	1.92E-07

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70013	U100 H-1 HTR	Nickel compounds	7440-02-0	0.0821	0.000012	6,972	1.18E-06	1.48E-06
70013	U100 H-1 HTR	Antimony	7440-36-0	0.0016	0.000000	6,972	2.36E-08	2.97E-08
70013	U100 H-1 HTR	Barium	7440-39-3	0.1180	0.000017	6,972	1.70E-06	2.13E-06
70013	U100 H-1 HTR	Cadmium	7440-43-9	0.0055	0.000001	6,972	7.91E-08	9.94E-08
70013	U100 H-1 HTR	Chromium compounds	7440-47-3	0.0147	0.000002	6,972	2.12E-07	2.66E-07
70013	U100 H-1 HTR	Cobalt compounds	7440-48-4	0.0027	0.000000	6,972	3.88E-08	4.88E-08
70013	U100 H-1 HTR	Copper compounds	7440-50-8	0.0524	0.000008	6,972	7.54E-07	9.47E-07
70013	U100 H-1 HTR	Zinc compounds	7440-66-6	0.3442	0.000049	6,972	4.95E-06	6.22E-06
70013	U100 H-1 HTR	Ammonia	7664-41-7	47.4519	0.006806	6,972	6.83E-04	8.58E-04
70013	U100 H-1 HTR	Sulfuric acid	7664-93-9	6.3821	0.000915	6,972	9.18E-05	1.15E-04
70013	U100 H-1 HTR	Phosphorus	7723-14-0	0.4076	0.000058	6,972	5.86E-06	7.37E-06
70013	U100 H-1 HTR	Hydrogen sulfide	7783-06-4	0.2335	0.000033	6,972	3.36E-06	4.22E-06
70013	U100 H-1 HTR	Chromium, hexavalent	18540-29-9	0.0000	0.000000	6,972	5.08E-10	6.38E-10
70014	U100 H-2 HTR	Lead compounds	1128	0.0719	0.000010	6,972	1.03E-06	1.30E-06
70014	U100 H-2 HTR	Formaldehyde	50-00-0	45.4373	0.006517	6,972	6.54E-04	8.21E-04
70014	U100 H-2 HTR	Carbon disulfide	75-15-0	0.2947	0.000042	6,972	4.24E-06	5.33E-06
70014	U100 H-2 HTR	Methyl ethyl ketone	78-93-3	1.1100	0.000159	6,972	1.60E-05	2.01E-05
70014	U100 H-2 HTR	Phenanthrene (PAHs)	85-01-8	0.0006	0.000000	6,972	8.44E-09	1.06E-08
70014	U100 H-2 HTR	Naphthalene	91-20-3	0.0018	0.000000	6,972	2.54E-08	3.19E-08
70014	U100 H-2 HTR	2-Methyl naphthalene (PAHs)	91-57-6	0.0006	0.000000	6,972	9.21E-09	1.16E-08
70014	U100 H-2 HTR	Acrolein	107-02-8	3.2811	0.000471	6,972	4.72E-05	5.93E-05
70014	U100 H-2 HTR	Phenol	108-95-2	0.7720	0.000111	6,972	1.11E-05	1.40E-05
70014	U100 H-2 HTR	Propylene	115-07-1	28.9511	0.004152	6,972	4.16E-04	5.23E-04
70014	U100 H-2 HTR	Pyrene	129-00-0	0.0002	0.000000	6,972	2.73E-09	3.43E-09
70014	U100 H-2 HTR	Dibenzofuran	132-64-9	0.0000	0.000000	6,972	1.18E-11	1.49E-11
70014	U100 H-2 HTR	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	6,972	1.45E-09	1.82E-09
70014	U100 H-2 HTR	Fluoranthene (PAHs)	206-44-0	0.0002	0.000000	6,972	3.04E-09	3.82E-09
70014	U100 H-2 HTR	Aluminum	7429-90-5	2.8626	0.000411	6,972	4.12E-05	5.17E-05
70014	U100 H-2 HTR	Manganese compounds	7439-96-5	0.0510	0.000007	6,972	7.34E-07	9.22E-07
70014	U100 H-2 HTR	Mercury compounds	7439-97-6	0.0106	0.000002	6,972	1.52E-07	1.91E-07
70014	U100 H-2 HTR	Nickel compounds	7440-02-0	0.0818	0.000012	6,972	1.18E-06	1.48E-06
70014	U100 H-2 HTR	Antimony	7440-36-0	0.0016	0.000000	6,972	2.35E-08	2.96E-08

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70014	U100 H-2 HTR	Barium	7440-39-3	0.1175	0.000017	6,972	1.69E-06	2.12E-06
70014	U100 H-2 HTR	Cadmium	7440-43-9	0.0055	0.000001	6,972	7.88E-08	9.90E-08
70014	U100 H-2 HTR	Chromium compounds	7440-47-3	0.0147	0.000002	6,972	2.11E-07	2.65E-07
70014	U100 H-2 HTR	Cobalt compounds	7440-48-4	0.0027	0.000000	6,972	3.87E-08	4.86E-08
70014	U100 H-2 HTR	Copper compounds	7440-50-8	0.0522	0.000007	6,972	7.51E-07	9.43E-07
70014	U100 H-2 HTR	Zinc compounds	7440-66-6	0.3427	0.000049	6,972	4.93E-06	6.19E-06
70014	U100 H-2 HTR	Ammonia	7664-41-7	47.2548	0.006778	6,972	6.80E-04	8.54E-04
70014	U100 H-2 HTR	Sulfuric acid	7664-93-9	10.3100	0.001479	6,972	1.48E-04	1.86E-04
70014	U100 H-2 HTR	Phosphorus	7723-14-0	0.4059	0.000058	6,972	5.84E-06	7.34E-06
70014	U100 H-2 HTR	Hydrogen sulfide	7783-06-4	0.2325	0.000033	6,972	3.34E-06	4.20E-06
70014	U100 H-2 HTR	Chromium, hexavalent	18540-29-9	0.0000	0.000000	6,972	5.06E-10	6.36E-10
70015	U100 H-100 HTR NORTH	Lead compounds	1128	0.0893	0.000013	6,972	1.28E-06	1.61E-06
70015	U100 H-100 HTR NORTH	Formaldehyde	50-00-0	56.4182	0.008092	6,972	8.11E-04	1.02E-03
70015	U100 H-100 HTR NORTH	Carbon disulfide	75-15-0	0.3659	0.000052	6,972	5.26E-06	6.61E-06
70015	U100 H-100 HTR NORTH	Methyl ethyl ketone	78-93-3	1.3782	0.000198	6,972	1.98E-05	2.49E-05
70015	U100 H-100 HTR NORTH	Phenanthrene (PAHs)	85-01-8	0.0007	0.000000	6,972	1.05E-08	1.32E-08
70015	U100 H-100 HTR NORTH	Naphthalene	91-20-3	0.0022	0.000000	6,972	3.15E-08	3.96E-08
70015	U100 H-100 HTR NORTH	2-Methyl naphthalene (PAHs)	91-57-6	0.0008	0.000000	6,972	1.14E-08	1.44E-08
70015	U100 H-100 HTR NORTH	Acrolein	107-02-8	4.0741	0.000584	6,972	5.86E-05	7.36E-05
70015	U100 H-100 HTR NORTH	Phenol	108-95-2	0.9586	0.000137	6,972	1.38E-05	1.73E-05
70015	U100 H-100 HTR NORTH	Propylene	115-07-1	35.9478	0.005156	6,972	5.17E-04	6.50E-04
70015	U100 H-100 HTR NORTH	Pyrene	129-00-0	0.0002	0.000000	6,972	3.39E-09	4.25E-09
70015	U100 H-100 HTR NORTH	Dibenzofuran	132-64-9	0.0000	0.000000	6,972	1.47E-11	1.85E-11
70015	U100 H-100 HTR NORTH	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	6,972	1.80E-09	2.26E-09
70015	U100 H-100 HTR NORTH	Fluoranthene (PAHs)	206-44-0	0.0003	0.000000	6,972	3.78E-09	4.75E-09
70015	U100 H-100 HTR NORTH	Aluminum	7429-90-5	3.5543	0.000510	6,972	5.11E-05	6.42E-05
70015	U100 H-100 HTR NORTH	Manganese compounds	7439-96-5	0.0633	0.000009	6,972	9.11E-07	1.14E-06
70015	U100 H-100 HTR NORTH	Mercury compounds	7439-97-6	0.0131	0.000002	6,972	1.88E-07	2.37E-07
70015	U100 H-100 HTR NORTH	Nickel compounds	7440-02-0	0.1016	0.000015	6,972	1.46E-06	1.84E-06
70015	U100 H-100 HTR NORTH	Antimony	7440-36-0	0.0020	0.000000	6,972	2.92E-08	3.67E-08
70015	U100 H-100 HTR NORTH	Barium	7440-39-3	0.1459	0.000021	6,972	2.10E-06	2.64E-06
70015	U100 H-100 HTR NORTH	Cadmium	7440-43-9	0.0068	0.000001	6,972	9.78E-08	1.23E-07

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70015	U100 H-100 HTR NORTH	Chromium compounds	7440-47-3	0.0182	0.000003	6,972	2.62E-07	3.29E-07
70015	U100 H-100 HTR NORTH	Cobalt compounds	7440-48-4	0.0033	0.000000	6,972	4.80E-08	6.03E-08
70015	U100 H-100 HTR NORTH	Copper compounds	7440-50-8	0.0648	0.000009	6,972	9.32E-07	1.17E-06
70015	U100 H-100 HTR NORTH	Zinc compounds	7440-66-6	0.4256	0.000061	6,972	6.12E-06	7.69E-06
70015	U100 H-100 HTR NORTH	Ammonia	7664-41-7	58.6749	0.008416	6,972	8.44E-04	1.06E-03
70015	U100 H-100 HTR NORTH	Sulfuric acid	7664-93-9	74.7224	0.010717	6,972	1.07E-03	1.35E-03
70015	U100 H-100 HTR NORTH	Phosphorus	7723-14-0	0.5041	0.000072	6,972	7.25E-06	9.11E-06
70015	U100 H-100 HTR NORTH	Hydrogen sulfide	7783-06-4	0.2887	0.000041	6,972	4.15E-06	5.22E-06
70015	U100 H-100 HTR NORTH	Chromium, hexavalent	18540-29-9	0.0000	0.000000	6,972	6.28E-10	7.89E-10
70016	U100 H-101 HTR NORTH	Lead compounds	1128	0.0589	0.000008	6,972	8.47E-07	1.06E-06
70016	U100 H-101 HTR NORTH	Formaldehyde	50-00-0	37.1879	0.005334	6,972	5.35E-04	6.72E-04
70016	U100 H-101 HTR NORTH	Carbon disulfide	75-15-0	0.2412	0.000035	6,972	3.47E-06	4.36E-06
70016	U100 H-101 HTR NORTH	Methyl ethyl ketone	78-93-3	0.9084	0.000130	6,972	1.31E-05	1.64E-05
70016	U100 H-101 HTR NORTH	Phenanthrene (PAHs)	85-01-8	0.0005	0.000000	6,972	6.91E-09	8.68E-09
70016	U100 H-101 HTR NORTH	Naphthalene	91-20-3	0.0014	0.000000	6,972	2.08E-08	2.61E-08
70016	U100 H-101 HTR NORTH	2-Methyl naphthalene (PAHs)	91-57-6	0.0005	0.000000	6,972	7.53E-09	9.47E-09
70016	U100 H-101 HTR NORTH	Acrolein	107-02-8	2.6854	0.000385	6,972	3.86E-05	4.85E-05
70016	U100 H-101 HTR NORTH	Phenol	108-95-2	0.6319	0.000091	6,972	9.09E-06	1.14E-05
70016	U100 H-101 HTR NORTH	Propylene	115-07-1	23.6949	0.003399	6,972	3.41E-04	4.28E-04
70016	U100 H-101 HTR NORTH	Pyrene	129-00-0	0.0002	0.000000	6,972	2.23E-09	2.80E-09
70016	U100 H-101 HTR NORTH	Dibenzofuran	132-64-9	0.0000	0.000000	6,972	9.69E-12	1.22E-11
70016	U100 H-101 HTR NORTH	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	6,972	1.18E-09	1.49E-09
70016	U100 H-101 HTR NORTH	Fluoranthene (PAHs)	206-44-0	0.0002	0.000000	6,972	2.49E-09	3.13E-09
70016	U100 H-101 HTR NORTH	Aluminum	7429-90-5	2.3428	0.000336	6,972	3.37E-05	4.23E-05
70016	U100 H-101 HTR NORTH	Manganese compounds	7439-96-5	0.0418	0.000006	6,972	6.01E-07	7.55E-07
70016	U100 H-101 HTR NORTH	Mercury compounds	7439-97-6	0.0086	0.000001	6,972	1.24E-07	1.56E-07
70016	U100 H-101 HTR NORTH	Nickel compounds	7440-02-0	0.0669	0.000010	6,972	9.63E-07	1.21E-06
70016	U100 H-101 HTR NORTH	Antimony	7440-36-0	0.0013	0.000000	6,972	1.93E-08	2.42E-08
70016	U100 H-101 HTR NORTH	Barium	7440-39-3	0.0962	0.000014	6,972	1.38E-06	1.74E-06
70016	U100 H-101 HTR NORTH	Cadmium	7440-43-9	0.0045	0.000001	6,972	6.45E-08	8.10E-08
70016	U100 H-101 HTR NORTH	Chromium compounds	7440-47-3	0.0120	0.000002	6,972	1.73E-07	2.17E-07
70016	U100 H-101 HTR NORTH	Cobalt compounds	7440-48-4	0.0022	0.000000	6,972	3.16E-08	3.97E-08

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70016	U100 H-101 HTR NORTH	Copper compounds	7440-50-8	0.0427	0.000006	6,972	6.14E-07	7.72E-07
70016	U100 H-101 HTR NORTH	Zinc compounds	7440-66-6	0.2805	0.000040	6,972	4.03E-06	5.07E-06
70016	U100 H-101 HTR NORTH	Ammonia	7664-41-7	38.6754	0.005547	6,972	5.56E-04	6.99E-04
70016	U100 H-101 HTR NORTH	Sulfuric acid	7664-93-9	48.6662	0.006980	6,972	7.00E-04	8.79E-04
70016	U100 H-101 HTR NORTH	Phosphorus	7723-14-0	0.3322	0.000048	6,972	4.78E-06	6.00E-06
70016	U100 H-101 HTR NORTH	Hydrogen sulfide	7783-06-4	0.1903	0.000027	6,972	2.74E-06	3.44E-06
70016	U100 H-101 HTR NORTH	Chromium, hexavalent	18540-29-9	0.0000	0.000000	6,972	4.14E-10	5.20E-10
70017	U100 H-102 HTR NORTH	Lead compounds	1128	0.0461	0.000007	6,972	6.63E-07	8.33E-07
70017	U100 H-102 HTR NORTH	Formaldehyde	50-00-0	29.1139	0.004176	6,972	4.19E-04	5.26E-04
70017	U100 H-102 HTR NORTH	Carbon disulfide	75-15-0	0.1888	0.000027	6,972	2.72E-06	3.41E-06
70017	U100 H-102 HTR NORTH	Methyl ethyl ketone	78-93-3	0.7112	0.000102	6,972	1.02E-05	1.29E-05
70017	U100 H-102 HTR NORTH	Phenanthrene (PAHs)	85-01-8	0.0004	0.000000	6,972	5.41E-09	6.79E-09
70017	U100 H-102 HTR NORTH	Naphthalene	91-20-3	0.0011	0.000000	6,972	1.63E-08	2.04E-08
70017	U100 H-102 HTR NORTH	2-Methyl naphthalene (PAHs)	91-57-6	0.0004	0.000000	6,972	5.90E-09	7.41E-09
70017	U100 H-102 HTR NORTH	Acrolein	107-02-8	2.1024	0.000302	6,972	3.02E-05	3.80E-05
70017	U100 H-102 HTR NORTH	Phenol	108-95-2	0.4947	0.000071	6,972	7.12E-06	8.94E-06
70017	U100 H-102 HTR NORTH	Propylene	115-07-1	18.5504	0.002661	6,972	2.67E-04	3.35E-04
70017	U100 H-102 HTR NORTH	Pyrene	129-00-0	0.0001	0.000000	6,972	1.75E-09	2.19E-09
70017	U100 H-102 HTR NORTH	Dibenzofuran	132-64-9	0.0000	0.000000	6,972	7.59E-12	9.53E-12
70017	U100 H-102 HTR NORTH	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	6,972	9.27E-10	1.17E-09
70017	U100 H-102 HTR NORTH	Fluoranthene (PAHs)	206-44-0	0.0001	0.000000	6,972	1.95E-09	2.45E-09
70017	U100 H-102 HTR NORTH	Aluminum	7429-90-5	1.8342	0.000263	6,972	2.64E-05	3.31E-05
70017	U100 H-102 HTR NORTH	Manganese compounds	7439-96-5	0.0327	0.000005	6,972	4.70E-07	5.91E-07
70017	U100 H-102 HTR NORTH	Mercury compounds	7439-97-6	0.0068	0.000001	6,972	9.73E-08	1.22E-07
70017	U100 H-102 HTR NORTH	Nickel compounds	7440-02-0	0.0524	0.000008	6,972	7.54E-07	9.47E-07
70017	U100 H-102 HTR NORTH	Antimony	7440-36-0	0.0010	0.000000	6,972	1.51E-08	1.89E-08
70017	U100 H-102 HTR NORTH	Barium	7440-39-3	0.0753	0.000011	6,972	1.08E-06	1.36E-06
70017	U100 H-102 HTR NORTH	Cadmium	7440-43-9	0.0035	0.000001	6,972	5.05E-08	6.34E-08
70017	U100 H-102 HTR NORTH	Chromium compounds	7440-47-3	0.0094	0.000001	6,972	1.35E-07	1.70E-07
70017	U100 H-102 HTR NORTH	Cobalt compounds	7440-48-4	0.0017	0.000000	6,972	2.48E-08	3.11E-08
70017	U100 H-102 HTR NORTH	Copper compounds	7440-50-8	0.0334	0.000005	6,972	4.81E-07	6.04E-07
70017	U100 H-102 HTR NORTH	Zinc compounds	7440-66-6	0.2196	0.000031	6,972	3.16E-06	3.97E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70017	U100 H-102 HTR NORTH	Ammonia	7664-41-7	30.2784	0.004343	6,972	4.36E-04	5.47E-04
70017	U100 H-102 HTR NORTH	Sulfuric acid	7664-93-9	39.2483	0.005629	6,972	5.65E-04	7.09E-04
70017	U100 H-102 HTR NORTH	Phosphorus	7723-14-0	0.2601	0.000037	6,972	3.74E-06	4.70E-06
70017	U100 H-102 HTR NORTH	Hydrogen sulfide	7783-06-4	0.1490	0.000021	6,972	2.14E-06	2.69E-06
70017	U100 H-102 HTR NORTH	Chromium, hexavalent	18540-29-9	0.0000	0.000000	6,972	3.24E-10	4.07E-10
70018	U100 H-103 HTR NORTH	Lead compounds	1128	0.0322	0.000005	6,972	4.63E-07	5.82E-07
70018	U100 H-103 HTR NORTH	Formaldehyde	50-00-0	20.3314	0.002916	6,972	2.92E-04	3.67E-04
70018	U100 H-103 HTR NORTH	Carbon disulfide	75-15-0	0.1319	0.000019	6,972	1.90E-06	2.38E-06
70018	U100 H-103 HTR NORTH	Methyl ethyl ketone	78-93-3	0.4967	0.000071	6,972	7.14E-06	8.98E-06
70018	U100 H-103 HTR NORTH	Phenanthrene (PAHs)	85-01-8	0.0003	0.000000	6,972	3.78E-09	4.75E-09
70018	U100 H-103 HTR NORTH	Naphthalene	91-20-3	0.0008	0.000000	6,972	1.14E-08	1.43E-08
70018	U100 H-103 HTR NORTH	2-Methyl naphthalene (PAHs)	91-57-6	0.0003	0.000000	6,972	4.12E-09	5.18E-09
70018	U100 H-103 HTR NORTH	Acrolein	107-02-8	1.4682	0.000211	6,972	2.11E-05	2.65E-05
70018	U100 H-103 HTR NORTH	Phenol	108-95-2	0.3455	0.000050	6,972	4.97E-06	6.24E-06
70018	U100 H-103 HTR NORTH	Propylene	115-07-1	12.9545	0.001858	6,972	1.86E-04	2.34E-04
70018	U100 H-103 HTR NORTH	Pyrene	129-00-0	0.0001	0.000000	6,972	1.22E-09	1.53E-09
70018	U100 H-103 HTR NORTH	Dibenzofuran	132-64-9	0.0000	0.000000	6,972	5.30E-12	6.66E-12
70018	U100 H-103 HTR NORTH	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0000	0.000000	6,972	6.48E-10	8.14E-10
70018	U100 H-103 HTR NORTH	Fluoranthene (PAHs)	206-44-0	0.0001	0.000000	6,972	1.36E-09	1.71E-09
70018	U100 H-103 HTR NORTH	Aluminum	7429-90-5	1.2809	0.000184	6,972	1.84E-05	2.31E-05
70018	U100 H-103 HTR NORTH	Manganese compounds	7439-96-5	0.0228	0.000003	6,972	3.28E-07	4.13E-07
70018	U100 H-103 HTR NORTH	Mercury compounds	7439-97-6	0.0047	0.000001	6,972	6.79E-08	8.53E-08
70018	U100 H-103 HTR NORTH	Nickel compounds	7440-02-0	0.0366	0.000005	6,972	5.26E-07	6.61E-07
70018	U100 H-103 HTR NORTH	Antimony	7440-36-0	0.0007	0.000000	6,972	1.05E-08	1.32E-08
70018	U100 H-103 HTR NORTH	Barium	7440-39-3	0.0526	0.000008	6,972	7.56E-07	9.50E-07
70018	U100 H-103 HTR NORTH	Cadmium	7440-43-9	0.0025	0.000000	6,972	3.53E-08	4.43E-08
70018	U100 H-103 HTR NORTH	Chromium compounds	7440-47-3	0.0066	0.000001	6,972	9.44E-08	1.19E-07
70018	U100 H-103 HTR NORTH	Cobalt compounds	7440-48-4	0.0012	0.000000	6,972	1.73E-08	2.17E-08
70018	U100 H-103 HTR NORTH	Copper compounds	7440-50-8	0.0234	0.000003	6,972	3.36E-07	4.22E-07
70018	U100 H-103 HTR NORTH	Zinc compounds	7440-66-6	0.1534	0.000022	6,972	2.21E-06	2.77E-06
70018	U100 H-103 HTR NORTH	Ammonia	7664-41-7	21.1447	0.003033	6,972	3.04E-04	3.82E-04
70018	U100 H-103 HTR NORTH	Sulfuric acid	7664-93-9	26.7569	0.003838	6,972	3.85E-04	4.84E-04

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70018	U100 H-103 HTR NORTH	Phosphorus	7723-14-0	0.1816	0.000026	6,972	2.61E-06	3.28E-06
70018	U100 H-103 HTR NORTH	Hydrogen sulfide	7783-06-4	0.1040	0.000015	6,972	1.50E-06	1.88E-06
70018	U100 H-103 HTR NORTH	Chromium, hexavalent	18540-29-9	0.0000	0.000000	6,972	2.26E-10	2.84E-10
70019	U100 H-104 HTR NORTH	Lead compounds	1128	0.0181	0.000003	6,972	2.61E-07	3.28E-07
70019	U100 H-104 HTR NORTH	Formaldehyde	50-00-0	11.4536	0.001643	6,972	1.65E-04	2.07E-04
70019	U100 H-104 HTR NORTH	Carbon disulfide	75-15-0	0.0743	0.000011	6,972	1.07E-06	1.34E-06
70019	U100 H-104 HTR NORTH	Methyl ethyl ketone	78-93-3	0.2798	0.000040	6,972	4.02E-06	5.06E-06
70019	U100 H-104 HTR NORTH	Phenanthrene (PAHs)	85-01-8	0.0001	0.000000	6,972	2.13E-09	2.67E-09
70019	U100 H-104 HTR NORTH	Naphthalene	91-20-3	0.0004	0.000000	6,972	6.40E-09	8.04E-09
70019	U100 H-104 HTR NORTH	2-Methyl naphthalene (PAHs)	91-57-6	0.0002	0.000000	6,972	2.32E-09	2.92E-09
70019	U100 H-104 HTR NORTH	Acrolein	107-02-8	0.8271	0.000119	6,972	1.19E-05	1.49E-05
70019	U100 H-104 HTR NORTH	Phenol	108-95-2	0.1946	0.000028	6,972	2.80E-06	3.52E-06
70019	U100 H-104 HTR NORTH	Propylene	115-07-1	7.2979	0.001047	6,972	1.05E-04	1.32E-04
70019	U100 H-104 HTR NORTH	Pyrene	129-00-0	0.0000	0.000000	6,972	6.87E-10	8.63E-10
70019	U100 H-104 HTR NORTH	Dibenzofuran	132-64-9	0.0000	0.000000	6,972	2.98E-12	3.75E-12
70019	U100 H-104 HTR NORTH	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0000	0.000000	6,972	3.65E-10	4.58E-10
70019	U100 H-104 HTR NORTH	Fluoranthene (PAHs)	206-44-0	0.0001	0.000000	6,972	7.67E-10	9.64E-10
70019	U100 H-104 HTR NORTH	Aluminum	7429-90-5	0.7216	0.000103	6,972	1.04E-05	1.30E-05
70019	U100 H-104 HTR NORTH	Manganese compounds	7439-96-5	0.0129	0.000002	6,972	1.85E-07	2.32E-07
70019	U100 H-104 HTR NORTH	Mercury compounds	7439-97-6	0.0027	0.000000	6,972	3.83E-08	4.81E-08
70019	U100 H-104 HTR NORTH	Nickel compounds	7440-02-0	0.0206	0.000003	6,972	2.97E-07	3.73E-07
70019	U100 H-104 HTR NORTH	Antimony	7440-36-0	0.0004	0.000000	6,972	5.93E-09	7.45E-09
70019	U100 H-104 HTR NORTH	Barium	7440-39-3	0.0296	0.000004	6,972	4.26E-07	5.35E-07
70019	U100 H-104 HTR NORTH	Cadmium	7440-43-9	0.0014	0.000000	6,972	1.99E-08	2.50E-08
70019	U100 H-104 HTR NORTH	Chromium compounds	7440-47-3	0.0037	0.000001	6,972	5.32E-08	6.68E-08
70019	U100 H-104 HTR NORTH	Cobalt compounds	7440-48-4	0.0007	0.000000	6,972	9.74E-09	1.22E-08
70019	U100 H-104 HTR NORTH	Copper compounds	7440-50-8	0.0132	0.000002	6,972	1.89E-07	2.38E-07
70019	U100 H-104 HTR NORTH	Zinc compounds	7440-66-6	0.0864	0.000012	6,972	1.24E-06	1.56E-06
70019	U100 H-104 HTR NORTH	Ammonia	7664-41-7	11.9118	0.001709	6,972	1.71E-04	2.15E-04
70019	U100 H-104 HTR NORTH	Sulfuric acid	7664-93-9	15.2388	0.002186	6,972	2.19E-04	2.75E-04
70019	U100 H-104 HTR NORTH	Phosphorus	7723-14-0	0.1023	0.000015	6,972	1.47E-06	1.85E-06
70019	U100 H-104 HTR NORTH	Hydrogen sulfide	7783-06-4	0.0586	0.000008	6,972	8.43E-07	1.06E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70019	U100 H-104 HTR NORTH	Chromium, hexavalent	18540-29-9	0.0000	0.000000	6,972	1.28E-10	1.60E-10
70020	U100 H-105 HTR	Lead compounds	1128	0.0606	0.000009	6,972	8.71E-07	1.09E-06
70020	U100 H-105 HTR	Formaldehyde	50-00-0	38.2776	0.005490	6,972	5.51E-04	6.92E-04
70020	U100 H-105 HTR	Carbon disulfide	75-15-0	0.2483	0.000036	6,972	3.57E-06	4.49E-06
70020	U100 H-105 HTR	Methyl ethyl ketone	78-93-3	0.9351	0.000134	6,972	1.34E-05	1.69E-05
70020	U100 H-105 HTR	Phenanthrene (PAHs)	85-01-8	0.0005	0.000000	6,972	7.11E-09	8.93E-09
70020	U100 H-105 HTR	Naphthalene	91-20-3	0.0015	0.000000	6,972	2.14E-08	2.69E-08
70020	U100 H-105 HTR	2-Methyl naphthalene (PAHs)	91-57-6	0.0005	0.000000	6,972	7.75E-09	9.74E-09
70020	U100 H-105 HTR	Acrolein	107-02-8	2.7641	0.000396	6,972	3.98E-05	5.00E-05
70020	U100 H-105 HTR	Phenol	108-95-2	0.6504	0.000093	6,972	9.35E-06	1.18E-05
70020	U100 H-105 HTR	Propylene	115-07-1	24.3892	0.003498	6,972	3.51E-04	4.41E-04
70020	U100 H-105 HTR	Pyrene	129-00-0	0.0002	0.000000	6,972	2.30E-09	2.89E-09
70020	U100 H-105 HTR	Dibenzofuran	132-64-9	0.0000	0.000000	6,972	9.97E-12	1.25E-11
70020	U100 H-105 HTR	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	6,972	1.22E-09	1.53E-09
70020	U100 H-105 HTR	Fluoranthene (PAHs)	206-44-0	0.0002	0.000000	6,972	2.56E-09	3.22E-09
70020	U100 H-105 HTR	Aluminum	7429-90-5	2.4115	0.000346	6,972	3.47E-05	4.36E-05
70020	U100 H-105 HTR	Manganese compounds	7439-96-5	0.0430	0.000006	6,972	6.18E-07	7.77E-07
70020	U100 H-105 HTR	Mercury compounds	7439-97-6	0.0089	0.000001	6,972	1.28E-07	1.61E-07
70020	U100 H-105 HTR	Nickel compounds	7440-02-0	0.0689	0.000010	6,972	9.91E-07	1.25E-06
70020	U100 H-105 HTR	Antimony	7440-36-0	0.0014	0.000000	6,972	1.98E-08	2.49E-08
70020	U100 H-105 HTR	Barium	7440-39-3	0.0990	0.000014	6,972	1.42E-06	1.79E-06
70020	U100 H-105 HTR	Cadmium	7440-43-9	0.0046	0.000001	6,972	6.64E-08	8.34E-08
70020	U100 H-105 HTR	Chromium compounds	7440-47-3	0.0124	0.000002	6,972	1.78E-07	2.23E-07
70020	U100 H-105 HTR	Cobalt compounds	7440-48-4	0.0023	0.000000	6,972	3.26E-08	4.09E-08
70020	U100 H-105 HTR	Copper compounds	7440-50-8	0.0440	0.000006	6,972	6.32E-07	7.95E-07
70020	U100 H-105 HTR	Zinc compounds	7440-66-6	0.2887	0.000041	6,972	4.15E-06	5.22E-06
70020	U100 H-105 HTR	Ammonia	7664-41-7	39.8087	0.005710	6,972	5.73E-04	7.19E-04
70020	U100 H-105 HTR	Sulfuric acid	7664-93-9	29.5185	0.004234	6,972	4.25E-04	5.33E-04
70020	U100 H-105 HTR	Phosphorus	7723-14-0	0.3420	0.000049	6,972	4.92E-06	6.18E-06
70020	U100 H-105 HTR	Hydrogen sulfide	7783-06-4	0.1959	0.000028	6,972	2.82E-06	3.54E-06
70020	U100 H-105 HTR	Chromium, hexavalent	18540-29-9	0.0000	0.000000	6,972	4.26E-10	5.36E-10
70021	U100 H-107 HTR	Lead compounds	1128	0.0243	0.000003	6,972	3.50E-07	4.39E-07

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70021	U100 H-107 HTR	Formaldehyde	50-00-0	15.3626	0.002203	6,972	2.21E-04	2.78E-04
70021	U100 H-107 HTR	Carbon disulfide	75-15-0	0.0996	0.000014	6,972	1.43E-06	1.80E-06
70021	U100 H-107 HTR	Methyl ethyl ketone	78-93-3	0.3753	0.000054	6,972	5.40E-06	6.78E-06
70021	U100 H-107 HTR	Phenanthrene (PAHs)	85-01-8	0.0002	0.000000	6,972	2.85E-09	3.59E-09
70021	U100 H-107 HTR	Naphthalene	91-20-3	0.0006	0.000000	6,972	8.59E-09	1.08E-08
70021	U100 H-107 HTR	2-Methyl naphthalene (PAHs)	91-57-6	0.0002	0.000000	6,972	3.11E-09	3.91E-09
70021	U100 H-107 HTR	Acrolein	107-02-8	1.1094	0.000159	6,972	1.60E-05	2.00E-05
70021	U100 H-107 HTR	Phenol	108-95-2	0.2610	0.000037	6,972	3.75E-06	4.72E-06
70021	U100 H-107 HTR	Propylene	115-07-1	9.7885	0.001404	6,972	1.41E-04	1.77E-04
70021	U100 H-107 HTR	Pyrene	129-00-0	0.0001	0.000000	6,972	9.22E-10	1.16E-09
70021	U100 H-107 HTR	Dibenzofuran	132-64-9	0.0000	0.000000	6,972	4.00E-12	5.03E-12
70021	U100 H-107 HTR	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0000	0.000000	6,972	4.89E-10	6.15E-10
70021	U100 H-107 HTR	Fluoranthene (PAHs)	206-44-0	0.0001	0.000000	6,972	1.03E-09	1.29E-09
70021	U100 H-107 HTR	Aluminum	7429-90-5	0.9678	0.000139	6,972	1.39E-05	1.75E-05
70021	U100 H-107 HTR	Manganese compounds	7439-96-5	0.0172	0.000002	6,972	2.48E-07	3.12E-07
70021	U100 H-107 HTR	Mercury compounds	7439-97-6	0.0036	0.000001	6,972	5.13E-08	6.45E-08
70021	U100 H-107 HTR	Nickel compounds	7440-02-0	0.0277	0.000004	6,972	3.98E-07	5.00E-07
70021	U100 H-107 HTR	Antimony	7440-36-0	0.0006	0.000000	6,972	7.95E-09	9.99E-09
70021	U100 H-107 HTR	Barium	7440-39-3	0.0397	0.000006	6,972	5.71E-07	7.18E-07
70021	U100 H-107 HTR	Cadmium	7440-43-9	0.0019	0.000000	6,972	2.66E-08	3.35E-08
70021	U100 H-107 HTR	Chromium compounds	7440-47-3	0.0050	0.000001	6,972	7.13E-08	8.96E-08
70021	U100 H-107 HTR	Cobalt compounds	7440-48-4	0.0009	0.000000	6,972	1.31E-08	1.64E-08
70021	U100 H-107 HTR	Copper compounds	7440-50-8	0.0176	0.000003	6,972	2.54E-07	3.19E-07
70021	U100 H-107 HTR	Zinc compounds	7440-66-6	0.1159	0.000017	6,972	1.67E-06	2.09E-06
70021	U100 H-107 HTR	Ammonia	7664-41-7	15.9771	0.002292	6,972	2.30E-04	2.89E-04
70021	U100 H-107 HTR	Sulfuric acid	7664-93-9	14.1950	0.002036	6,972	2.04E-04	2.57E-04
70021	U100 H-107 HTR	Phosphorus	7723-14-0	0.1373	0.000020	6,972	1.97E-06	2.48E-06
70021	U100 H-107 HTR	Hydrogen sulfide	7783-06-4	0.0786	0.000011	6,972	1.13E-06	1.42E-06
70021	U100 H-107 HTR	Chromium, hexavalent	18540-29-9	0.0000	0.000000	6,972	1.71E-10	2.15E-10
70022	U110 B-211 HTR	Lead compounds	1128	0.0474	0.000007	7,224	6.82E-07	8.27E-07
70022	U110 B-211 HTR	Formaldehyde	50-00-0	29.9598	0.004147	7,224	4.31E-04	5.23E-04
70022	U110 B-211 HTR	Carbon disulfide	75-15-0	0.1943	0.000027	7,224	2.79E-06	3.39E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70022	U110 B-211 HTR	Methyl ethyl ketone	78-93-3	0.7319	0.000101	7,224	1.05E-05	1.28E-05
70022	U110 B-211 HTR	Phenanthrene (PAHs)	85-01-8	0.0004	0.000000	7,224	5.57E-09	6.75E-09
70022	U110 B-211 HTR	Naphthalene	91-20-3	0.0012	0.000000	7,224	1.67E-08	2.03E-08
70022	U110 B-211 HTR	2-Methyl naphthalene (PAHs)	91-57-6	0.0004	0.000000	7,224	6.07E-09	7.36E-09
70022	U110 B-211 HTR	Acrolein	107-02-8	2.1635	0.000299	7,224	3.11E-05	3.77E-05
70022	U110 B-211 HTR	Phenol	108-95-2	0.5090	0.000070	7,224	7.32E-06	8.88E-06
70022	U110 B-211 HTR	Propylene	115-07-1	19.0894	0.002642	7,224	2.75E-04	3.33E-04
70022	U110 B-211 HTR	Pyrene	129-00-0	0.0001	0.000000	7,224	1.80E-09	2.18E-09
70022	U110 B-211 HTR	Dibenzofuran	132-64-9	0.0000	0.000000	7,224	7.81E-12	9.47E-12
70022	U110 B-211 HTR	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	7,224	9.54E-10	1.16E-09
70022	U110 B-211 HTR	Fluoranthene (PAHs)	206-44-0	0.0001	0.000000	7,224	2.01E-09	2.43E-09
70022	U110 B-211 HTR	Aluminum	7429-90-5	1.8875	0.000261	7,224	2.71E-05	3.29E-05
70022	U110 B-211 HTR	Manganese compounds	7439-96-5	0.0336	0.000005	7,224	4.84E-07	5.87E-07
70022	U110 B-211 HTR	Mercury compounds	7439-97-6	0.0070	0.000001	7,224	1.00E-07	1.21E-07
70022	U110 B-211 HTR	Nickel compounds	7440-02-0	0.0539	0.000007	7,224	7.76E-07	9.41E-07
70022	U110 B-211 HTR	Antimony	7440-36-0	0.0011	0.000000	7,224	1.55E-08	1.88E-08
70022	U110 B-211 HTR	Barium	7440-39-3	0.0775	0.000011	7,224	1.11E-06	1.35E-06
70022	U110 B-211 HTR	Cadmium	7440-43-9	0.0036	0.000001	7,224	5.20E-08	6.30E-08
70022	U110 B-211 HTR	Chromium compounds	7440-47-3	0.0097	0.000001	7,224	1.39E-07	1.69E-07
70022	U110 B-211 HTR	Cobalt compounds	7440-48-4	0.0018	0.000000	7,224	2.55E-08	3.09E-08
70022	U110 B-211 HTR	Copper compounds	7440-50-8	0.0344	0.000005	7,224	4.95E-07	6.00E-07
70022	U110 B-211 HTR	Zinc compounds	7440-66-6	0.2260	0.000031	7,224	3.25E-06	3.94E-06
70022	U110 B-211 HTR	Ammonia	7664-41-7	31.1582	0.004313	7,224	4.48E-04	5.43E-04
70022	U110 B-211 HTR	Sulfuric acid	7664-93-9	46.2670	0.006405	7,224	6.65E-04	8.07E-04
70022	U110 B-211 HTR	Phosphorus	7723-14-0	0.2677	0.000037	7,224	3.85E-06	4.67E-06
70022	U110 B-211 HTR	Hydrogen sulfide	7783-06-4	0.1533	0.000021	7,224	2.20E-06	2.67E-06
70022	U110 B-211 HTR	Chromium, hexavalent	18540-29-9	0.0000	0.000000	7,224	3.34E-10	4.05E-10
70023	U120 B-101 HTR (HLNX-RF), SRC	Lead compounds	1128	0.6218	0.000079	7,920	8.94E-06	9.89E-06
70023	U120 B-101 HTR (HLNX-RF), SRC	Formaldehyde	50-00-0	392.8291	0.049600	7,920	5.65E-03	6.25E-03
70023	U120 B-101 HTR (HLNX-RF), SRC	Carbon disulfide	75-15-0	2.5478	0.000322	7,920	3.66E-05	4.05E-05
70023	U120 B-101 HTR (HLNX-RF), SRC	Methyl ethyl ketone	78-93-3	9.5963	0.001212	7,920	1.38E-04	1.53E-04
70023	U120 B-101 HTR (HLNX-RF), SRC	Phenanthrene (PAHs)	85-01-8	0.0051	0.000001	7,920	7.30E-08	8.07E-08

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70023	U120 B-101 HTR (HLNX-RF), SRC	Naphthalene	91-20-3	0.0153	0.000002	7,920	2.20E-07	2.43E-07
70023	U120 B-101 HTR (HLNX-RF), SRC	2-Methyl naphthalene (PAHs)	91-57-6	0.0055	0.000001	7,920	7.96E-08	8.80E-08
70023	U120 B-101 HTR (HLNX-RF), SRC	Acrolein	107-02-8	28.3671	0.003582	7,920	4.08E-04	4.51E-04
70023	U120 B-101 HTR (HLNX-RF), SRC	Phenol	108-95-2	6.6746	0.000843	7,920	9.60E-05	1.06E-04
70023	U120 B-101 HTR (HLNX-RF), SRC	Propylene	115-07-1	250.2976	0.031603	7,920	3.60E-03	3.98E-03
70023	U120 B-101 HTR (HLNX-RF), SRC	Pyrene	129-00-0	0.0016	0.000000	7,920	2.36E-08	2.61E-08
70023	U120 B-101 HTR (HLNX-RF), SRC	Dibenzofuran	132-64-9	0.0000	0.000000	7,920	1.02E-10	1.13E-10
70023	U120 B-101 HTR (HLNX-RF), SRC	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0009	0.000000	7,920	1.25E-08	1.38E-08
70023	U120 B-101 HTR (HLNX-RF), SRC	Fluoranthene (PAHs)	206-44-0	0.0018	0.000000	7,920	2.63E-08	2.91E-08
70023	U120 B-101 HTR (HLNX-RF), SRC	Aluminum	7429-90-5	24.7482	0.003125	7,920	3.56E-04	3.94E-04
70023	U120 B-101 HTR (HLNX-RF), SRC	Manganese compounds	7439-96-5	0.4411	0.000056	7,920	6.34E-06	7.02E-06
70023	U120 B-101 HTR (HLNX-RF), SRC	Mercury compounds	7439-97-6	0.0912	0.000012	7,920	1.31E-06	1.45E-06
70023	U120 B-101 HTR (HLNX-RF), SRC	Nickel compounds	7440-02-0	0.7071	0.000089	7,920	1.02E-05	1.12E-05
70023	U120 B-101 HTR (HLNX-RF), SRC	Antimony	7440-36-0	0.0141	0.000002	7,920	2.03E-07	2.25E-07
70023	U120 B-101 HTR (HLNX-RF), SRC	Barium	7440-39-3	1.0157	0.000128	7,920	1.46E-05	1.62E-05
70023	U120 B-101 HTR (HLNX-RF), SRC	Cadmium	7440-43-9	0.0474	0.000006	7,920	6.81E-07	7.54E-07
70023	U120 B-101 HTR (HLNX-RF), SRC	Chromium compounds	7440-47-3	0.1268	0.000016	7,920	1.82E-06	2.02E-06
70023	U120 B-101 HTR (HLNX-RF), SRC	Cobalt compounds	7440-48-4	0.0232	0.000003	7,920	3.34E-07	3.70E-07
70023	U120 B-101 HTR (HLNX-RF), SRC	Copper compounds	7440-50-8	0.4512	0.000057	7,920	6.49E-06	7.18E-06
70023	U120 B-101 HTR (HLNX-RF), SRC	Zinc compounds	7440-66-6	2.9631	0.000374	7,920	4.26E-05	4.71E-05
70023	U120 B-101 HTR (HLNX-RF), SRC	Ammonia	7664-41-7	15,376.4548	1.941472	7,920	2.21E-01	2.45E-01
70023	U120 B-101 HTR (HLNX-RF), SRC	Sulfuric acid	7664-93-9	478.3209	0.060394	7,920	6.88E-03	7.61E-03
70023	U120 B-101 HTR (HLNX-RF), SRC	Phosphorus	7723-14-0	3.5096	0.000443	7,920	5.05E-05	5.58E-05
70023	U120 B-101 HTR (HLNX-RF), SRC	Hydrogen sulfide	7783-06-4	2.0100	0.000254	7,920	2.89E-05	3.20E-05
70023	U120 B-101 HTR (HLNX-RF), SRC	Chromium, hexavalent	18540-29-9	0.0003	0.000000	7,920	4.37E-09	4.84E-09
70024	U120 B-201 HTR	Lead compounds	1128	0.0829	0.000010	7,920	1.19E-06	1.32E-06
70024	U120 B-201 HTR	Formaldehyde	50-00-0	52.3504	0.006610	7,920	7.53E-04	8.33E-04
70024	U120 B-201 HTR	Carbon disulfide	75-15-0	0.3395	0.000043	7,920	4.88E-06	5.40E-06
70024	U120 B-201 HTR	Methyl ethyl ketone	78-93-3	1.2788	0.000161	7,920	1.84E-05	2.03E-05
70024	U120 B-201 HTR	Phenanthrene (PAHs)	85-01-8	0.0007	0.000000	7,920	9.72E-09	1.08E-08
70024	U120 B-201 HTR	Naphthalene	91-20-3	0.0020	0.000000	7,920	2.93E-08	3.24E-08
70024	U120 B-201 HTR	2-Methyl naphthalene (PAHs)	91-57-6	0.0007	0.000000	7,920	1.06E-08	1.17E-08

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70024	U120 B-201 HTR	Acrolein	107-02-8	3.7803	0.000477	7,920	5.44E-05	6.01E-05
70024	U120 B-201 HTR	Phenol	108-95-2	0.8895	0.000112	7,920	1.28E-05	1.42E-05
70024	U120 B-201 HTR	Propylene	115-07-1	33.3559	0.004212	7,920	4.80E-04	5.31E-04
70024	U120 B-201 HTR	Pyrene	129-00-0	0.0002	0.000000	7,920	3.14E-09	3.47E-09
70024	U120 B-201 HTR	Dibenzofuran	132-64-9	0.0000	0.000000	7,920	1.36E-11	1.51E-11
70024	U120 B-201 HTR	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	7,920	1.67E-09	1.84E-09
70024	U120 B-201 HTR	Fluoranthene (PAHs)	206-44-0	0.0002	0.000000	7,920	3.51E-09	3.88E-09
70024	U120 B-201 HTR	Aluminum	7429-90-5	3.2981	0.000416	7,920	4.74E-05	5.25E-05
70024	U120 B-201 HTR	Manganese compounds	7439-96-5	0.0588	0.000007	7,920	8.45E-07	9.35E-07
70024	U120 B-201 HTR	Mercury compounds	7439-97-6	0.0122	0.000002	7,920	1.75E-07	1.93E-07
70024	U120 B-201 HTR	Nickel compounds	7440-02-0	0.0942	0.000012	7,920	1.36E-06	1.50E-06
70024	U120 B-201 HTR	Antimony	7440-36-0	0.0019	0.000000	7,920	2.71E-08	3.00E-08
70024	U120 B-201 HTR	Barium	7440-39-3	0.1354	0.000017	7,920	1.95E-06	2.15E-06
70024	U120 B-201 HTR	Cadmium	7440-43-9	0.0063	0.000001	7,920	9.08E-08	1.00E-07
70024	U120 B-201 HTR	Chromium compounds	7440-47-3	0.0169	0.000002	7,920	2.43E-07	2.69E-07
70024	U120 B-201 HTR	Cobalt compounds	7440-48-4	0.0031	0.000000	7,920	4.45E-08	4.93E-08
70024	U120 B-201 HTR	Copper compounds	7440-50-8	0.0601	0.000008	7,920	8.65E-07	9.57E-07
70024	U120 B-201 HTR	Zinc compounds	7440-66-6	0.3949	0.000050	7,920	5.68E-06	6.28E-06
70024	U120 B-201 HTR	Ammonia	7664-41-7	54.4444	0.006874	7,920	7.83E-04	8.66E-04
70024	U120 B-201 HTR	Sulfuric acid	7664-93-9	2.4761	0.000313	7,920	3.56E-05	3.94E-05
70024	U120 B-201 HTR	Phosphorus	7723-14-0	0.4677	0.000059	7,920	6.73E-06	7.44E-06
70024	U120 B-201 HTR	Hydrogen sulfide	7783-06-4	0.2679	0.000034	7,920	3.85E-06	4.26E-06
70024	U120 B-201 HTR	Chromium, hexavalent	18540-29-9	0.0000	0.000000	7,920	5.83E-10	6.45E-10
70025	U120 B-202 HTR (HLNX-RF)	Lead compounds	1128	0.0218	0.000003	7,920	3.13E-07	3.47E-07
70025	U120 B-202 HTR (HLNX-RF)	Formaldehyde	50-00-0	13.7693	0.001739	7,920	1.98E-04	2.19E-04
70025	U120 B-202 HTR (HLNX-RF)	Carbon disulfide	75-15-0	0.0893	0.000011	7,920	1.28E-06	1.42E-06
70025	U120 B-202 HTR (HLNX-RF)	Methyl ethyl ketone	78-93-3	0.3364	0.000042	7,920	4.84E-06	5.35E-06
70025	U120 B-202 HTR (HLNX-RF)	Phenanthrene (PAHs)	85-01-8	0.0002	0.000000	7,920	2.56E-09	2.83E-09
70025	U120 B-202 HTR (HLNX-RF)	Naphthalene	91-20-3	0.0005	0.000000	7,920	7.70E-09	8.51E-09
70025	U120 B-202 HTR (HLNX-RF)	2-Methyl naphthalene (PAHs)	91-57-6	0.0002	0.000000	7,920	2.79E-09	3.09E-09
70025	U120 B-202 HTR (HLNX-RF)	Acrolein	107-02-8	0.9943	0.000126	7,920	1.43E-05	1.58E-05
70025	U120 B-202 HTR (HLNX-RF)	Phenol	108-95-2	0.2340	0.000030	7,920	3.37E-06	3.72E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70025	U120 B-202 HTR (HLNX-RF)	Propylene	115-07-1	8.7733	0.001108	7,920	1.26E-04	1.40E-04
70025	U120 B-202 HTR (HLNX-RF)	Pyrene	129-00-0	0.0001	0.000000	7,920	8.26E-10	9.14E-10
70025	U120 B-202 HTR (HLNX-RF)	Dibenzofuran	132-64-9	0.0000	0.000000	7,920	3.59E-12	3.97E-12
70025	U120 B-202 HTR (HLNX-RF)	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0000	0.000000	7,920	4.39E-10	4.85E-10
70025	U120 B-202 HTR (HLNX-RF)	Fluoranthene (PAHs)	206-44-0	0.0001	0.000000	7,920	9.22E-10	1.02E-09
70025	U120 B-202 HTR (HLNX-RF)	Aluminum	7429-90-5	0.8675	0.000110	7,920	1.25E-05	1.38E-05
70025	U120 B-202 HTR (HLNX-RF)	Manganese compounds	7439-96-5	0.0155	0.000002	7,920	2.22E-07	2.46E-07
70025	U120 B-202 HTR (HLNX-RF)	Mercury compounds	7439-97-6	0.0032	0.000000	7,920	4.60E-08	5.09E-08
70025	U120 B-202 HTR (HLNX-RF)	Nickel compounds	7440-02-0	0.0248	0.000003	7,920	3.56E-07	3.94E-07
70025	U120 B-202 HTR (HLNX-RF)	Antimony	7440-36-0	0.0005	0.000000	7,920	7.13E-09	7.89E-09
70025	U120 B-202 HTR (HLNX-RF)	Barium	7440-39-3	0.0356	0.000004	7,920	5.12E-07	5.66E-07
70025	U120 B-202 HTR (HLNX-RF)	Cadmium	7440-43-9	0.0017	0.000000	7,920	2.39E-08	2.64E-08
70025	U120 B-202 HTR (HLNX-RF)	Chromium compounds	7440-47-3	0.0044	0.000001	7,920	6.39E-08	7.07E-08
70025	U120 B-202 HTR (HLNX-RF)	Cobalt compounds	7440-48-4	0.0008	0.000000	7,920	1.17E-08	1.30E-08
70025	U120 B-202 HTR (HLNX-RF)	Copper compounds	7440-50-8	0.0158	0.000002	7,920	2.27E-07	2.52E-07
70025	U120 B-202 HTR (HLNX-RF)	Zinc compounds	7440-66-6	0.1039	0.000013	7,920	1.49E-06	1.65E-06
70025	U120 B-202 HTR (HLNX-RF)	Ammonia	7664-41-7	14.3200	0.001808	7,920	2.06E-04	2.28E-04
70025	U120 B-202 HTR (HLNX-RF)	Sulfuric acid	7664-93-9	9.7590	0.001232	7,920	1.40E-04	1.55E-04
70025	U120 B-202 HTR (HLNX-RF)	Phosphorus	7723-14-0	0.1230	0.000016	7,920	1.77E-06	1.96E-06
70025	U120 B-202 HTR (HLNX-RF)	Hydrogen sulfide	7783-06-4	0.0705	0.000009	7,920	1.01E-06	1.12E-06
70025	U120 B-202 HTR (HLNX-RF)	Chromium, hexavalent	18540-29-9	0.0000	0.000000	7,920	1.53E-10	1.70E-10
70026	U120 B-203 HTR (HLNX-RF)	Lead compounds	1128	0.0559	0.000007	7,920	8.04E-07	8.89E-07
70026	U120 B-203 HTR (HLNX-RF)	Formaldehyde	50-00-0	35.3232	0.004460	7,920	5.08E-04	5.62E-04
70026	U120 B-203 HTR (HLNX-RF)	Carbon disulfide	75-15-0	0.2291	0.000029	7,920	3.30E-06	3.64E-06
70026	U120 B-203 HTR (HLNX-RF)	Methyl ethyl ketone	78-93-3	0.8629	0.000109	7,920	1.24E-05	1.37E-05
70026	U120 B-203 HTR (HLNX-RF)	Phenanthrene (PAHs)	85-01-8	0.0005	0.000000	7,920	6.56E-09	7.26E-09
70026	U120 B-203 HTR (HLNX-RF)	Naphthalene	91-20-3	0.0014	0.000000	7,920	1.97E-08	2.18E-08
70026	U120 B-203 HTR (HLNX-RF)	2-Methyl naphthalene (PAHs)	91-57-6	0.0005	0.000000	7,920	7.16E-09	7.92E-09
70026	U120 B-203 HTR (HLNX-RF)	Acrolein	107-02-8	2.5508	0.000322	7,920	3.67E-05	4.06E-05
70026	U120 B-203 HTR (HLNX-RF)	Phenol	108-95-2	0.6002	0.000076	7,920	8.63E-06	9.55E-06
70026	U120 B-203 HTR (HLNX-RF)	Propylene	115-07-1	22.5068	0.002842	7,920	3.24E-04	3.58E-04
70026	U120 B-203 HTR (HLNX-RF)	Pyrene	129-00-0	0.0001	0.000000	7,920	2.12E-09	2.34E-09

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70026	U120 B-203 HTR (HLNX-RF)	Dibenzofuran	132-64-9	0.0000	0.000000	7,920	9.20E-12	1.02E-11
70026	U120 B-203 HTR (HLNX-RF)	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	7,920	1.12E-09	1.24E-09
70026	U120 B-203 HTR (HLNX-RF)	Fluoranthene (PAHs)	206-44-0	0.0002	0.000000	7,920	2.37E-09	2.62E-09
70026	U120 B-203 HTR (HLNX-RF)	Aluminum	7429-90-5	2.2254	0.000281	7,920	3.20E-05	3.54E-05
70026	U120 B-203 HTR (HLNX-RF)	Manganese compounds	7439-96-5	0.0397	0.000005	7,920	5.70E-07	6.31E-07
70026	U120 B-203 HTR (HLNX-RF)	Mercury compounds	7439-97-6	0.0082	0.000001	7,920	1.18E-07	1.31E-07
70026	U120 B-203 HTR (HLNX-RF)	Nickel compounds	7440-02-0	0.0636	0.000008	7,920	9.15E-07	1.01E-06
70026	U120 B-203 HTR (HLNX-RF)	Antimony	7440-36-0	0.0013	0.000000	7,920	1.83E-08	2.02E-08
70026	U120 B-203 HTR (HLNX-RF)	Barium	7440-39-3	0.0913	0.000012	7,920	1.31E-06	1.45E-06
70026	U120 B-203 HTR (HLNX-RF)	Cadmium	7440-43-9	0.0043	0.000001	7,920	6.13E-08	6.78E-08
70026	U120 B-203 HTR (HLNX-RF)	Chromium compounds	7440-47-3	0.0114	0.000001	7,920	1.64E-07	1.81E-07
70026	U120 B-203 HTR (HLNX-RF)	Cobalt compounds	7440-48-4	0.0021	0.000000	7,920	3.00E-08	3.32E-08
70026	U120 B-203 HTR (HLNX-RF)	Copper compounds	7440-50-8	0.0406	0.000005	7,920	5.84E-07	6.45E-07
70026	U120 B-203 HTR (HLNX-RF)	Zinc compounds	7440-66-6	0.2664	0.000034	7,920	3.83E-06	4.24E-06
70026	U120 B-203 HTR (HLNX-RF)	Ammonia	7664-41-7	36.7362	0.004638	7,920	5.28E-04	5.84E-04
70026	U120 B-203 HTR (HLNX-RF)	Sulfuric acid	7664-93-9	3.9481	0.000499	7,920	5.68E-05	6.28E-05
70026	U120 B-203 HTR (HLNX-RF)	Phosphorus	7723-14-0	0.3156	0.000040	7,920	4.54E-06	5.02E-06
70026	U120 B-203 HTR (HLNX-RF)	Hydrogen sulfide	7783-06-4	0.1807	0.000023	7,920	2.60E-06	2.88E-06
70026	U120 B-203 HTR (HLNX-RF)	Chromium, hexavalent	18540-29-9	0.0000	0.000000	7,920	3.93E-10	4.35E-10
70027	U120 B-204 HTR	Lead compounds	1128	0.2322	0.000029	7,920	3.34E-06	3.69E-06
70027	U120 B-204 HTR	Formaldehyde	50-00-0	146.6855	0.018521	7,920	2.11E-03	2.33E-03
70027	U120 B-204 HTR	Carbon disulfide	75-15-0	0.9514	0.000120	7,920	1.37E-05	1.51E-05
70027	U120 B-204 HTR	Methyl ethyl ketone	78-93-3	3.5833	0.000452	7,920	5.15E-05	5.70E-05
70027	U120 B-204 HTR	Phenanthrene (PAHs)	85-01-8	0.0019	0.000000	7,920	2.72E-08	3.01E-08
70027	U120 B-204 HTR	Naphthalene	91-20-3	0.0057	0.000001	7,920	8.20E-08	9.07E-08
70027	U120 B-204 HTR	2-Methyl naphthalene (PAHs)	91-57-6	0.0021	0.000000	7,920	2.97E-08	3.29E-08
70027	U120 B-204 HTR	Acrolein	107-02-8	10.5925	0.001337	7,920	1.52E-04	1.69E-04
70027	U120 B-204 HTR	Phenol	108-95-2	2.4923	0.000315	7,920	3.58E-05	3.97E-05
70027	U120 B-204 HTR	Propylene	115-07-1	93.4631	0.011801	7,920	1.34E-03	1.49E-03
70027	U120 B-204 HTR	Pyrene	129-00-0	0.0006	0.000000	7,920	8.80E-09	9.73E-09
70027	U120 B-204 HTR	Dibenzofuran	132-64-9	0.0000	0.000000	7,920	3.82E-11	4.23E-11
70027	U120 B-204 HTR	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0003	0.000000	7,920	4.67E-09	5.17E-09

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70027	U120 B-204 HTR	Fluoranthene (PAHs)	206-44-0	0.0007	0.000000	7,920	9.83E-09	1.09E-08
70027	U120 B-204 HTR	Aluminum	7429-90-5	9.2412	0.001167	7,920	1.33E-04	1.47E-04
70027	U120 B-204 HTR	Manganese compounds	7439-96-5	0.1647	0.000021	7,920	2.37E-06	2.62E-06
70027	U120 B-204 HTR	Mercury compounds	7439-97-6	0.0341	0.000004	7,920	4.90E-07	5.42E-07
70027	U120 B-204 HTR	Nickel compounds	7440-02-0	0.2640	0.000033	7,920	3.80E-06	4.20E-06
70027	U120 B-204 HTR	Antimony	7440-36-0	0.0053	0.000001	7,920	7.60E-08	8.40E-08
70027	U120 B-204 HTR	Barium	7440-39-3	0.3793	0.000048	7,920	5.46E-06	6.03E-06
70027	U120 B-204 HTR	Cadmium	7440-43-9	0.0177	0.000002	7,920	2.54E-07	2.81E-07
70027	U120 B-204 HTR	Chromium compounds	7440-47-3	0.0474	0.000006	7,920	6.81E-07	7.53E-07
70027	U120 B-204 HTR	Cobalt compounds	7440-48-4	0.0087	0.000001	7,920	1.25E-07	1.38E-07
70027	U120 B-204 HTR	Copper compounds	7440-50-8	0.1685	0.000021	7,920	2.42E-06	2.68E-06
70027	U120 B-204 HTR	Zinc compounds	7440-66-6	1.1064	0.000140	7,920	1.59E-05	1.76E-05
70027	U120 B-204 HTR	Ammonia	7664-41-7	152.5529	0.019262	7,920	2.19E-03	2.43E-03
70027	U120 B-204 HTR	Sulfuric acid	7664-93-9	189.0396	0.023869	7,920	2.72E-03	3.01E-03
70027	U120 B-204 HTR	Phosphorus	7723-14-0	1.3105	0.000165	7,920	1.88E-05	2.08E-05
70027	U120 B-204 HTR	Hydrogen sulfide	7783-06-4	0.7506	0.000095	7,920	1.08E-05	1.19E-05
70027	U120 B-204 HTR	Chromium, hexavalent	18540-29-9	0.0001	0.000000	7,920	1.63E-09	1.81E-09
70029	U138 SRU, B-108	Lead compounds	1128	0.0294	0.000003	8,688	4.23E-07	4.27E-07
70029	U138 SRU, B-108	Formaldehyde	50-00-0	0.0008	0.000000	8,688	1.21E-08	1.22E-08
70029	U138 SRU, B-108	Benzo(a)pyrene	50-32-8	0.0016	0.000000	8,688	2.30E-08	2.32E-08
70029	U138 SRU, B-108	Dibenz(a,h)anthracene (PAHs)	53-70-3	0.0000	0.000000	8,688	3.15E-12	3.17E-12
70029	U138 SRU, B-108	Benz(a)anthracene (PAHs)	56-55-3	0.0000	0.000000	8,688	2.19E-11	2.21E-11
70029	U138 SRU, B-108	Benzene	71-43-2	1.6834	0.000194	8,688	2.42E-05	2.44E-05
70029	U138 SRU, B-108	Acetaldehyde	75-07-0	0.0001	0.000000	8,688	1.97E-09	1.98E-09
70029	U138 SRU, B-108	Carbon disulfide	75-15-0	649.2139	0.074725	8,688	9.34E-03	9.42E-03
70029	U138 SRU, B-108	Acenaphthene (PAHs)	83-32-9	0.0002	0.000000	8,688	2.46E-09	2.49E-09
70029	U138 SRU, B-108	Phenanthrene (PAHs)	85-01-8	0.0005	0.000000	8,688	7.19E-09	7.25E-09
70029	U138 SRU, B-108	Fluorene (PAHs)	86-73-7	0.0002	0.000000	8,688	2.59E-09	2.61E-09
70029	U138 SRU, B-108	Naphthalene	91-20-3	0.0170	0.000002	8,688	2.45E-07	2.47E-07
70029	U138 SRU, B-108	Ethyl benzene	100-41-4	0.4489	0.000052	8,688	6.46E-06	6.51E-06
70029	U138 SRU, B-108	Acrolein	107-02-8	0.4770	0.000055	8,688	6.86E-06	6.92E-06
70029	U138 SRU, B-108	Toluene	108-88-3	4.2085	0.000484	8,688	6.05E-05	6.10E-05

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70029	U138 SRU, B-108	Phenol	108-95-2	0.1122	0.000013	8,688	1.61E-06	1.63E-06
70029	U138 SRU, B-108	Propylene	115-07-1	4.2085	0.000484	8,688	6.05E-05	6.10E-05
70029	U138 SRU, B-108	Anthracene	120-12-7	0.0000	0.000000	8,688	1.40E-10	1.41E-10
70029	U138 SRU, B-108	Pyrene	129-00-0	0.0004	0.000000	8,688	5.16E-09	5.20E-09
70029	U138 SRU, B-108	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0000	0.000000	8,688	4.70E-10	4.73E-10
70029	U138 SRU, B-108	Indeno(1,2,3-cd)pyrene (PAHs)	193-39-5	0.0000	0.000000	8,688	9.28E-11	9.36E-11
70029	U138 SRU, B-108	Benzo(b)fluoranthene (PAHs)	205-99-2	0.0000	0.000000	8,688	9.72E-11	9.80E-11
70029	U138 SRU, B-108	Fluoranthene (PAHs)	206-44-0	0.0002	0.000000	8,688	3.23E-09	3.26E-09
70029	U138 SRU, B-108	Benzo(k)fluoranthene (PAHs)	207-08-9	0.0000	0.000000	8,688	2.61E-11	2.63E-11
70029	U138 SRU, B-108	Acenaphthylene (PAHs)	208-96-8	0.0007	0.000000	8,688	9.58E-09	9.66E-09
70029	U138 SRU, B-108	Chrysene (PAHs)	218-01-9	0.0000	0.000000	8,688	8.55E-11	8.62E-11
70029	U138 SRU, B-108	Carbonyl sulfide	463-58-1	456.3751	0.052529	8,688	6.56E-03	6.62E-03
70029	U138 SRU, B-108	Xylenes (mixed isomers)	1330-20-7	0.7014	0.000081	8,688	1.01E-05	1.02E-05
70029	U138 SRU, B-108	Manganese compounds	7439-96-5	0.1375	0.000016	8,688	1.98E-06	1.99E-06
70029	U138 SRU, B-108	Mercury compounds	7439-97-6	0.0086	0.000001	8,688	1.24E-07	1.25E-07
70029	U138 SRU, B-108	Nickel compounds	7440-02-0	0.2104	0.000024	8,688	3.03E-06	3.05E-06
70029	U138 SRU, B-108	Antimony	7440-36-0	0.0146	0.000002	8,688	2.10E-07	2.12E-07
70029	U138 SRU, B-108	Arsenic	7440-38-2	0.0202	0.000002	8,688	2.91E-07	2.93E-07
70029	U138 SRU, B-108	Barium	7440-39-3	0.1627	0.000019	8,688	2.34E-06	2.36E-06
70029	U138 SRU, B-108	Beryllium	7440-41-7	0.0036	0.000000	8,688	5.25E-08	5.29E-08
70029	U138 SRU, B-108	Cadmium	7440-43-9	0.0421	0.000005	8,688	6.05E-07	6.10E-07
70029	U138 SRU, B-108	Chromium compounds	7440-47-3	0.1599	0.000018	8,688	2.30E-06	2.32E-06
70029	U138 SRU, B-108	Copper compounds	7440-50-8	0.5039	0.000058	8,688	7.25E-06	7.31E-06
70029	U138 SRU, B-108	Zinc compounds	7440-66-6	0.6888	0.000079	8,688	9.91E-06	9.99E-06
70029	U138 SRU, B-108	Ammonia	7664-41-7	0.0004	0.000000	8,688	6.08E-09	6.13E-09
70029	U138 SRU, B-108	Sulfuric acid	7664-93-9	203.0507	0.023371	8,688	2.92E-03	2.94E-03
70029	U138 SRU, B-108	Selenium compounds	7782-49-2	0.0247	0.000003	8,688	3.55E-07	3.58E-07
70029	U138 SRU, B-108	Hydrogen sulfide	7783-06-4	56.3637	0.006488	8,688	8.11E-04	8.17E-04
70031	U138 SRU, B-208	Lead compounds	1128	0.1199	0.000014	8,688	1.72E-06	1.74E-06
70031	U138 SRU, B-208	Formaldehyde	50-00-0	0.0034	0.000000	8,688	4.92E-08	4.96E-08
70031	U138 SRU, B-208	Benzo(a)pyrene	50-32-8	0.0065	0.000001	8,688	9.37E-08	9.45E-08
70031	U138 SRU, B-208	Dibenz(a,h)anthracene (PAHs)	53-70-3	0.0000	0.000000	8,688	1.28E-11	1.29E-11

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70031	U138 SRU, B-208	Benz(a)anthracene (PAHs)	56-55-3	0.0000	0.000000	8,688	8.93E-11	9.01E-11
70031	U138 SRU, B-208	Benzene	71-43-2	6.8568	0.000789	8,688	9.86E-05	9.94E-05
70031	U138 SRU, B-208	Acetaldehyde	75-07-0	0.0006	0.000000	8,688	8.02E-09	8.08E-09
70031	U138 SRU, B-208	Carbon disulfide	75-15-0	2,644.3353	0.304366	8,688	3.80E-02	3.83E-02
70031	U138 SRU, B-208	Acenaphthene (PAHs)	83-32-9	0.0007	0.000000	8,688	1.00E-08	1.01E-08
70031	U138 SRU, B-208	Phenanthrene (PAHs)	85-01-8	0.0020	0.000000	8,688	2.93E-08	2.95E-08
70031	U138 SRU, B-208	Fluorene (PAHs)	86-73-7	0.0007	0.000000	8,688	1.05E-08	1.06E-08
70031	U138 SRU, B-208	Naphthalene	91-20-3	0.0693	0.000008	8,688	9.96E-07	1.00E-06
70031	U138 SRU, B-208	Ethyl benzene	100-41-4	1.8285	0.000210	8,688	2.63E-05	2.65E-05
70031	U138 SRU, B-208	Acrolein	107-02-8	1.9428	0.000224	8,688	2.79E-05	2.82E-05
70031	U138 SRU, B-208	Toluene	108-88-3	17.1419	0.001973	8,688	2.47E-04	2.49E-04
70031	U138 SRU, B-208	Phenol	108-95-2	0.4571	0.000053	8,688	6.57E-06	6.63E-06
70031	U138 SRU, B-208	Propylene	115-07-1	17.1419	0.001973	8,688	2.47E-04	2.49E-04
70031	U138 SRU, B-208	Anthracene	120-12-7	0.0000	0.000000	8,688	5.70E-10	5.75E-10
70031	U138 SRU, B-208	Pyrene	129-00-0	0.0015	0.000000	8,688	2.10E-08	2.12E-08
70031	U138 SRU, B-208	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	8,688	1.91E-09	1.93E-09
70031	U138 SRU, B-208	Indeno(1,2,3-cd)pyrene (PAHs)	193-39-5	0.0000	0.000000	8,688	3.78E-10	3.81E-10
70031	U138 SRU, B-208	Benzo(b)fluoranthene (PAHs)	205-99-2	0.0000	0.000000	8,688	3.96E-10	3.99E-10
70031	U138 SRU, B-208	Fluoranthene (PAHs)	206-44-0	0.0009	0.000000	8,688	1.32E-08	1.33E-08
70031	U138 SRU, B-208	Benzo(k)fluoranthene (PAHs)	207-08-9	0.0000	0.000000	8,688	1.06E-10	1.07E-10
70031	U138 SRU, B-208	Acenaphthylene (PAHs)	208-96-8	0.0027	0.000000	8,688	3.90E-08	3.94E-08
70031	U138 SRU, B-208	Chrysene (PAHs)	218-01-9	0.0000	0.000000	8,688	3.48E-10	3.51E-10
70031	U138 SRU, B-208	Carbonyl sulfide	463-58-1	1,858.8770	0.213959	8,688	2.67E-02	2.70E-02
70031	U138 SRU, B-208	Xylenes (mixed isomers)	1330-20-7	2.8570	0.000329	8,688	4.11E-05	4.14E-05
70031	U138 SRU, B-208	Manganese compounds	7439-96-5	0.5600	0.000064	8,688	8.05E-06	8.12E-06
70031	U138 SRU, B-208	Mercury compounds	7439-97-6	0.0350	0.000004	8,688	5.03E-07	5.07E-07
70031	U138 SRU, B-208	Nickel compounds	7440-02-0	0.8571	0.000099	8,688	1.23E-05	1.24E-05
70031	U138 SRU, B-208	Antimony	7440-36-0	0.0594	0.000007	8,688	8.55E-07	8.62E-07
70031	U138 SRU, B-208	Arsenic	7440-38-2	0.0823	0.000009	8,688	1.18E-06	1.19E-06
70031	U138 SRU, B-208	Barium	7440-39-3	0.6628	0.000076	8,688	9.53E-06	9.61E-06
70031	U138 SRU, B-208	Beryllium	7440-41-7	0.0149	0.000002	8,688	2.14E-07	2.15E-07
70031	U138 SRU, B-208	Cadmium	7440-43-9	0.1714	0.000020	8,688	2.47E-06	2.49E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70031	U138 SRU, B-208	Chromium compounds	7440-47-3	0.6514	0.000075	8,688	9.37E-06	9.45E-06
70031	U138 SRU, B-208	Copper compounds	7440-50-8	2.0523	0.000236	8,688	2.95E-05	2.98E-05
70031	U138 SRU, B-208	Zinc compounds	7440-66-6	2.8056	0.000323	8,688	4.04E-05	4.07E-05
70031	U138 SRU, B-208	Ammonia	7664-41-7	0.0017	0.000000	8,688	2.48E-08	2.50E-08
70031	U138 SRU, B-208	Sulfuric acid	7664-93-9	11.9499	0.001375	8,688	1.72E-04	1.73E-04
70031	U138 SRU, B-208	Selenium compounds	7782-49-2	0.1006	0.000012	8,688	1.45E-06	1.46E-06
70031	U138 SRU, B-208	Hydrogen sulfide	7783-06-4	239.3599	0.027551	8,688	3.44E-03	3.47E-03
70034	U152 B-602 HTR	Lead compounds	1128	0.0743	0.000010	7,380	1.07E-06	1.27E-06
70034	U152 B-602 HTR	Formaldehyde	50-00-0	46.9146	0.006357	7,380	6.75E-04	8.01E-04
70034	U152 B-602 HTR	Carbon disulfide	75-15-0	0.3043	0.000041	7,380	4.38E-06	5.19E-06
70034	U152 B-602 HTR	Methyl ethyl ketone	78-93-3	1.1461	0.000155	7,380	1.65E-05	1.96E-05
70034	U152 B-602 HTR	Phenanthrene (PAHs)	85-01-8	0.0006	0.000000	7,380	8.71E-09	1.03E-08
70034	U152 B-602 HTR	Naphthalene	91-20-3	0.0018	0.000000	7,380	2.62E-08	3.11E-08
70034	U152 B-602 HTR	2-Methyl naphthalene (PAHs)	91-57-6	0.0007	0.000000	7,380	9.50E-09	1.13E-08
70034	U152 B-602 HTR	Acrolein	107-02-8	3.3878	0.000459	7,380	4.87E-05	5.78E-05
70034	U152 B-602 HTR	Phenol	108-95-2	0.7971	0.000108	7,380	1.15E-05	1.36E-05
70034	U152 B-602 HTR	Propylene	115-07-1	29.8924	0.004050	7,380	4.30E-04	5.10E-04
70034	U152 B-602 HTR	Pyrene	129-00-0	0.0002	0.000000	7,380	2.81E-09	3.34E-09
70034	U152 B-602 HTR	Dibenzofuran	132-64-9	0.0000	0.000000	7,380	1.22E-11	1.45E-11
70034	U152 B-602 HTR	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	7,380	1.49E-09	1.77E-09
70034	U152 B-602 HTR	Fluoranthene (PAHs)	206-44-0	0.0002	0.000000	7,380	3.14E-09	3.73E-09
70034	U152 B-602 HTR	Aluminum	7429-90-5	2.9556	0.000400	7,380	4.25E-05	5.05E-05
70034	U152 B-602 HTR	Manganese compounds	7439-96-5	0.0527	0.000007	7,380	7.58E-07	8.99E-07
70034	U152 B-602 HTR	Mercury compounds	7439-97-6	0.0109	0.000001	7,380	1.57E-07	1.86E-07
70034	U152 B-602 HTR	Nickel compounds	7440-02-0	0.0844	0.000011	7,380	1.21E-06	1.44E-06
70034	U152 B-602 HTR	Antimony	7440-36-0	0.0017	0.000000	7,380	2.43E-08	2.88E-08
70034	U152 B-602 HTR	Barium	7440-39-3	0.1213	0.000016	7,380	1.74E-06	2.07E-06
70034	U152 B-602 HTR	Cadmium	7440-43-9	0.0057	0.000001	7,380	8.14E-08	9.66E-08
70034	U152 B-602 HTR	Chromium compounds	7440-47-3	0.0151	0.000002	7,380	2.18E-07	2.59E-07
70034	U152 B-602 HTR	Cobalt compounds	7440-48-4	0.0028	0.000000	7,380	3.99E-08	4.74E-08
70034	U152 B-602 HTR	Copper compounds	7440-50-8	0.0539	0.000007	7,380	7.75E-07	9.20E-07
70034	U152 B-602 HTR	Zinc compounds	7440-66-6	0.3539	0.000048	7,380	5.09E-06	6.04E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70034	U152 B-602 HTR	Ammonia	7664-41-7	48.7912	0.006611	7,380	7.02E-04	8.33E-04
70034	U152 B-602 HTR	Sulfuric acid	7664-93-9	26.7863	0.003630	7,380	3.85E-04	4.57E-04
70034	U152 B-602 HTR	Phosphorus	7723-14-0	0.4191	0.000057	7,380	6.03E-06	7.16E-06
70034	U152 B-602 HTR	Hydrogen sulfide	7783-06-4	0.2401	0.000033	7,380	3.45E-06	4.10E-06
70034	U152 B-602 HTR	Chromium, hexavalent	18540-29-9	0.0000	0.000000	7,380	5.22E-10	6.20E-10
70035	U152 B-703 HTR	Lead compounds	1128	0.2012	0.000027	7,380	2.89E-06	3.44E-06
70035	U152 B-703 HTR	Formaldehyde	50-00-0	0.6204	0.000084	7,380	8.92E-06	1.06E-05
70035	U152 B-703 HTR	Benzo(a)pyrene	50-32-8	0.0030	0.000000	7,380	4.34E-08	5.15E-08
70035	U152 B-703 HTR	Dibenz(a,h)anthracene (PAHs)	53-70-3	0.0001	0.000000	7,380	1.14E-09	1.36E-09
70035	U152 B-703 HTR	Benz(a)anthracene (PAHs)	56-55-3	0.0012	0.000000	7,380	1.68E-08	1.99E-08
70035	U152 B-703 HTR	Benzene	71-43-2	0.2925	0.000040	7,380	4.21E-06	4.99E-06
70035	U152 B-703 HTR	Acetaldehyde	75-07-0	0.1563	0.000021	7,380	2.25E-06	2.67E-06
70035	U152 B-703 HTR	Phenanthrene (PAHs)	85-01-8	0.0017	0.000000	7,380	2.44E-08	2.89E-08
70035	U152 B-703 HTR	Naphthalene	91-20-3	0.0151	0.000002	7,380	2.18E-07	2.58E-07
70035	U152 B-703 HTR	Ethyl benzene	100-41-4	0.3480	0.000047	7,380	5.01E-06	5.94E-06
70035	U152 B-703 HTR	Acrolein	107-02-8	0.1362	0.000018	7,380	1.96E-06	2.32E-06
70035	U152 B-703 HTR	Toluene	108-88-3	1.3365	0.000181	7,380	1.92E-05	2.28E-05
70035	U152 B-703 HTR	Phenol	108-95-2	0.2118	0.000029	7,380	3.05E-06	3.62E-06
70035	U152 B-703 HTR	Hexane	110-54-3	0.2320	0.000031	7,380	3.34E-06	3.96E-06
70035	U152 B-703 HTR	Propylene	115-07-1	26.7308	0.003622	7,380	3.84E-04	4.56E-04
70035	U152 B-703 HTR	Anthracene	120-12-7	0.0002	0.000000	7,380	3.58E-09	4.25E-09
70035	U152 B-703 HTR	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	7,380	9.90E-10	1.18E-09
70035	U152 B-703 HTR	Indeno(1,2,3-cd)pyrene (PAHs)	193-39-5	0.0038	0.000001	7,380	5.41E-08	6.42E-08
70035	U152 B-703 HTR	Benzo(b)fluoranthene (PAHs)	205-99-2	0.0014	0.000000	7,380	2.06E-08	2.44E-08
70035	U152 B-703 HTR	Fluoranthene (PAHs)	206-44-0	0.0005	0.000000	7,380	6.63E-09	7.87E-09
70035	U152 B-703 HTR	Benzo(k)fluoranthene (PAHs)	207-08-9	0.0009	0.000000	7,380	1.29E-08	1.54E-08
70035	U152 B-703 HTR	Chrysene (PAHs)	218-01-9	0.0001	0.000000	7,380	1.22E-09	1.45E-09
70035	U152 B-703 HTR	Xylenes (mixed isomers)	1330-20-7	0.9936	0.000135	7,380	1.43E-05	1.70E-05
70035	U152 B-703 HTR	Manganese compounds	7439-96-5	0.2595	0.000035	7,380	3.73E-06	4.43E-06
70035	U152 B-703 HTR	Mercury compounds	7439-97-6	0.0095	0.000001	7,380	1.37E-07	1.63E-07
70035	U152 B-703 HTR	Nickel compounds	7440-02-0	0.3972	0.000054	7,380	5.71E-06	6.78E-06
70035	U152 B-703 HTR	Antimony	7440-36-0	0.0275	0.000004	7,380	3.96E-07	4.70E-07

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70035	U152 B-703 HTR	Arsenic	7440-38-2	0.0381	0.000005	7,380	5.48E-07	6.51E-07
70035	U152 B-703 HTR	Barium	7440-39-3	0.3072	0.000042	7,380	4.42E-06	5.24E-06
70035	U152 B-703 HTR	Beryllium	7440-41-7	0.0069	0.000001	7,380	9.90E-08	1.18E-07
70035	U152 B-703 HTR	Cadmium	7440-43-9	0.0794	0.000011	7,380	1.14E-06	1.36E-06
70035	U152 B-703 HTR	Chromium compounds	7440-47-3	0.3019	0.000041	7,380	4.34E-06	5.15E-06
70035	U152 B-703 HTR	Copper compounds	7440-50-8	0.2489	0.000034	7,380	3.58E-06	4.25E-06
70035	U152 B-703 HTR	Zinc compounds	7440-66-6	2.8067	0.000380	7,380	4.04E-05	4.79E-05
70035	U152 B-703 HTR	Ammonia	7664-41-7	161.3933	0.021869	7,380	2.32E-03	2.76E-03
70035	U152 B-703 HTR	Hydrogen sulfide	7783-06-4	4.5014	0.000610	7,380	6.47E-05	7.69E-05
70037	FCC STACK	Lead compounds	1128	1.1418	0.000155	7,380	1.64E-05	1.95E-05
70037	FCC STACK	PAHs, total, w/o indiv. comp.	1151	0.0932	0.000013	7,380	1.34E-06	1.59E-06
70037	FCC STACK	Formaldehyde	50-00-0	347.7833	0.047125	7,380	5.00E-03	5.94E-03
70037	FCC STACK	Hydrocyanic acid	74-90-8	154,782.3677	20.973221	7,380	2.23E+00	2.64E+00
70037	FCC STACK	Acetaldehyde	75-07-0	18.2202	0.002469	7,380	2.62E-04	3.11E-04
70037	FCC STACK	Phenanthrene (PAHs)	85-01-8	0.0163	0.000002	7,380	2.34E-07	2.77E-07
70037	FCC STACK	Naphthalene	91-20-3	0.2262	0.000031	7,380	3.25E-06	3.86E-06
70037	FCC STACK	1,3-Butadiene	106-99-0	48.0239	0.006507	7,380	6.91E-04	8.20E-04
70037	FCC STACK	Acrolein	107-02-8	579.0348	0.078460	7,380	8.33E-03	9.89E-03
70037	FCC STACK	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0225	0.000003	7,380	3.23E-07	3.84E-07
70037	FCC STACK	Aluminum	7429-90-5	1,357.9200	0.184000	7,380	1.95E-02	2.32E-02
70037	FCC STACK	Manganese compounds	7439-96-5	12.4814	0.001691	7,380	1.80E-04	2.13E-04
70037	FCC STACK	Mercury compounds	7439-97-6	0.4773	0.000065	7,380	6.87E-06	8.15E-06
70037	FCC STACK	Nickel compounds	7440-02-0	3.4619	0.000469	7,380	4.98E-05	5.91E-05
70037	FCC STACK	Cadmium	7440-43-9	3.7010	0.000501	7,380	5.32E-05	6.32E-05
70037	FCC STACK	Chromium compounds	7440-47-3	1.4900	0.000202	7,380	2.14E-05	2.54E-05
70037	FCC STACK	Cobalt compounds	7440-48-4	0.1149	0.000016	7,380	1.65E-06	1.96E-06
70037	FCC STACK	Copper compounds	7440-50-8	3.5477	0.000481	7,380	5.10E-05	6.06E-05
70037	FCC STACK	Vanadium compounds	7440-62-2	17.5644	0.002380	7,380	2.53E-04	3.00E-04
70037	FCC STACK	Zinc compounds	7440-66-6	71.0398	0.009626	7,380	1.02E-03	1.21E-03
70037	FCC STACK	Hydrochloric acid	7647-01-0	361.6200	0.049000	7,380	5.20E-03	6.17E-03
70037	FCC STACK	Ammonia	7664-41-7	7,084.8000	0.960000	7,380	1.02E-01	1.21E-01
70037	FCC STACK	Sulfuric acid	7664-93-9	2,594.0804	0.351501	7,380	3.73E-02	4.43E-02

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70037	FCC STACK	Chromium, hexavalent	18540-29-9	0.2023	0.000027	7,380	2.91E-06	3.45E-06
70038	BOILER 4	Lead compounds	1128	0.2593	0.000030	8,760	3.73E-06	3.73E-06
70038	BOILER 4	Formaldehyde	50-00-0	40.4491	0.004617	8,760	5.82E-04	5.82E-04
70038	BOILER 4	Acetaldehyde	75-07-0	25.7141	0.002935	8,760	3.70E-04	3.70E-04
70038	BOILER 4	Phenanthrene (PAHs)	85-01-8	0.0012	0.000000	8,760	1.77E-08	1.77E-08
70038	BOILER 4	Naphthalene	91-20-3	0.0079	0.000001	8,760	1.14E-07	1.14E-07
70038	BOILER 4	2-Methyl naphthalene (PAHs)	91-57-6	0.0035	0.000000	8,760	5.05E-08	5.05E-08
70038	BOILER 4	Acrolein	107-02-8	9.1279	0.001042	8,760	1.31E-04	1.31E-04
70038	BOILER 4	Toluene	108-88-3	5.3812	0.000614	8,760	7.74E-05	7.74E-05
70038	BOILER 4	Phenol	108-95-2	2.1477	0.000245	8,760	3.09E-05	3.09E-05
70038	BOILER 4	Hexane	110-54-3	2.9145	0.000333	8,760	4.19E-05	4.19E-05
70038	BOILER 4	Propylene	115-07-1	80.5401	0.009194	8,760	1.16E-03	1.16E-03
70038	BOILER 4	Pyrene	129-00-0	0.0005	0.000000	8,760	7.22E-09	7.22E-09
70038	BOILER 4	Dibenzofuran	132-64-9	0.0000	0.000000	8,760	1.61E-11	1.61E-11
70038	BOILER 4	Octachlorodibenzo-p-dioxins	3268-87-9	0.0000	0.000000	8,760	2.83E-12	2.83E-12
70038	BOILER 4	Manganese compounds	7439-96-5	0.9787	0.000112	8,760	1.41E-05	1.41E-05
70038	BOILER 4	Mercury compounds	7439-97-6	0.0207	0.000002	8,760	2.98E-07	2.98E-07
70038	BOILER 4	Nickel compounds	7440-02-0	0.4081	0.000047	8,760	5.87E-06	5.87E-06
70038	BOILER 4	Arsenic	7440-38-2	0.1965	0.000022	8,760	2.83E-06	2.83E-06
70038	BOILER 4	Barium	7440-39-3	1.0221	0.000117	8,760	1.47E-05	1.47E-05
70038	BOILER 4	Cadmium	7440-43-9	0.0267	0.000003	8,760	3.84E-07	3.84E-07
70038	BOILER 4	Chromium compounds	7440-47-3	0.2257	0.000026	8,760	3.25E-06	3.25E-06
70038	BOILER 4	Cobalt compounds	7440-48-4	0.0161	0.000002	8,760	2.31E-07	2.31E-07
70038	BOILER 4	Copper compounds	7440-50-8	0.2499	0.000029	8,760	3.59E-06	3.59E-06
70038	BOILER 4	Vanadium compounds	7440-62-2	0.2730	0.000031	8,760	3.93E-06	3.93E-06
70038	BOILER 4	Zinc compounds	7440-66-6	1.3038	0.000149	8,760	1.88E-05	1.88E-05
70038	BOILER 4	Sulfuric acid	7664-93-9	103.3831	0.011802	8,760	1.49E-03	1.49E-03
70038	BOILER 4	Hydrogen sulfide	7783-06-4	0.6468	0.000074	8,760	9.30E-06	9.30E-06
70038	BOILER 4	Chromium, hexavalent	18540-29-9	0.0002	0.000000	8,760	3.40E-09	3.40E-09
70038	BOILER 4	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	0.0000	0.000000	8,760	5.05E-12	5.05E-12
70039	BOILER 6	Lead compounds	1128	0.4933	0.000056	8,760	7.09E-06	7.09E-06
70039	BOILER 6	Formaldehyde	50-00-0	311.6401	0.035575	8,760	4.48E-03	4.48E-03

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70039	BOILER 6	Carbon disulfide	75-15-0	2.0212	0.000231	8,760	2.91E-05	2.91E-05
70039	BOILER 6	Methyl ethyl ketone	78-93-3	7.6129	0.000869	8,760	1.09E-04	1.09E-04
70039	BOILER 6	Phenanthrene (PAHs)	85-01-8	0.0040	0.000000	8,760	5.79E-08	5.79E-08
70039	BOILER 6	Naphthalene	91-20-3	0.0121	0.000001	8,760	1.74E-07	1.74E-07
70039	BOILER 6	2-Methyl naphthalene (PAHs)	91-57-6	0.0044	0.000001	8,760	6.31E-08	6.31E-08
70039	BOILER 6	Acrolein	107-02-8	22.5042	0.002569	8,760	3.24E-04	3.24E-04
70039	BOILER 6	Phenol	108-95-2	5.2951	0.000604	8,760	7.62E-05	7.62E-05
70039	BOILER 6	Propylene	115-07-1	198.5667	0.022667	8,760	2.86E-03	2.86E-03
70039	BOILER 6	Pyrene	129-00-0	0.0013	0.000000	8,760	1.87E-08	1.87E-08
70039	BOILER 6	Dibenzofuran	132-64-9	0.0000	0.000000	8,760	8.12E-11	8.12E-11
70039	BOILER 6	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0007	0.000000	8,760	9.93E-09	9.93E-09
70039	BOILER 6	Fluoranthene (PAHs)	206-44-0	0.0015	0.000000	8,760	2.09E-08	2.09E-08
70039	BOILER 6	Aluminum	7429-90-5	19.6333	0.002241	8,760	2.82E-04	2.82E-04
70039	BOILER 6	Manganese compounds	7439-96-5	0.3499	0.000040	8,760	5.03E-06	5.03E-06
70039	BOILER 6	Mercury compounds	7439-97-6	0.0724	0.000008	8,760	1.04E-06	1.04E-06
70039	BOILER 6	Nickel compounds	7440-02-0	0.5610	0.000064	8,760	8.07E-06	8.07E-06
70039	BOILER 6	Antimony	7440-36-0	0.0112	0.000001	8,760	1.61E-07	1.61E-07
70039	BOILER 6	Barium	7440-39-3	0.8058	0.000092	8,760	1.16E-05	1.16E-05
70039	BOILER 6	Cadmium	7440-43-9	0.0376	0.000004	8,760	5.40E-07	5.40E-07
70039	BOILER 6	Chromium compounds	7440-47-3	0.1006	0.000011	8,760	1.45E-06	1.45E-06
70039	BOILER 6	Cobalt compounds	7440-48-4	0.0184	0.000002	8,760	2.65E-07	2.65E-07
70039	BOILER 6	Copper compounds	7440-50-8	0.3579	0.000041	8,760	5.15E-06	5.15E-06
70039	BOILER 6	Zinc compounds	7440-66-6	2.3507	0.000268	8,760	3.38E-05	3.38E-05
70039	BOILER 6	Ammonia	7664-41-7	324.1057	0.036998	8,760	4.66E-03	4.66E-03
70039	BOILER 6	Sulfuric acid	7664-93-9	367.1002	0.041906	8,760	5.28E-03	5.28E-03
70039	BOILER 6	Phosphorus	7723-14-0	2.7843	0.000318	8,760	4.00E-05	4.00E-05
70039	BOILER 6	Hydrogen sulfide	7783-06-4	1.5946	0.000182	8,760	2.29E-05	2.29E-05
70039	BOILER 6	Chromium, hexavalent	18540-29-9	0.0002	0.000000	8,760	3.47E-09	3.47E-09
70040	UTILITY BOILER B-7	Lead compounds	1128	0.5048	0.000058	8,760	7.26E-06	7.26E-06
70040	UTILITY BOILER B-7	Formaldehyde	50-00-0	318.9349	0.036408	8,760	4.59E-03	4.59E-03
70040	UTILITY BOILER B-7	Carbon disulfide	75-15-0	2.0685	0.000236	8,760	2.98E-05	2.98E-05
70040	UTILITY BOILER B-7	Methyl ethyl ketone	78-93-3	7.7911	0.000889	8,760	1.12E-04	1.12E-04

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70040	UTILITY BOILER B-7	Phenanthrene (PAHs)	85-01-8	0.0041	0.000000	8,760	5.92E-08	5.92E-08
70040	UTILITY BOILER B-7	Naphthalene	91-20-3	0.0124	0.000001	8,760	1.78E-07	1.78E-07
70040	UTILITY BOILER B-7	2-Methyl naphthalene (PAHs)	91-57-6	0.0045	0.000001	8,760	6.46E-08	6.46E-08
70040	UTILITY BOILER B-7	Acrolein	107-02-8	23.0310	0.002629	8,760	3.31E-04	3.31E-04
70040	UTILITY BOILER B-7	Phenol	108-95-2	5.4191	0.000619	8,760	7.79E-05	7.79E-05
70040	UTILITY BOILER B-7	Propylene	115-07-1	203.2147	0.023198	8,760	2.92E-03	2.92E-03
70040	UTILITY BOILER B-7	Pyrene	129-00-0	0.0013	0.000000	8,760	1.91E-08	1.91E-08
70040	UTILITY BOILER B-7	Dibenzofuran	132-64-9	0.0000	0.000000	8,760	8.31E-11	8.31E-11
70040	UTILITY BOILER B-7	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0007	0.000000	8,760	1.02E-08	1.02E-08
70040	UTILITY BOILER B-7	Fluoranthene (PAHs)	206-44-0	0.0015	0.000000	8,760	2.14E-08	2.14E-08
70040	UTILITY BOILER B-7	Aluminum	7429-90-5	20.0929	0.002294	8,760	2.89E-04	2.89E-04
70040	UTILITY BOILER B-7	Manganese compounds	7439-96-5	0.3581	0.000041	8,760	5.15E-06	5.15E-06
70040	UTILITY BOILER B-7	Mercury compounds	7439-97-6	0.0741	0.000008	8,760	1.07E-06	1.07E-06
70040	UTILITY BOILER B-7	Nickel compounds	7440-02-0	0.5741	0.000066	8,760	8.26E-06	8.26E-06
70040	UTILITY BOILER B-7	Antimony	7440-36-0	0.0115	0.000001	8,760	1.65E-07	1.65E-07
70040	UTILITY BOILER B-7	Barium	7440-39-3	0.8247	0.000094	8,760	1.19E-05	1.19E-05
70040	UTILITY BOILER B-7	Cadmium	7440-43-9	0.0385	0.000004	8,760	5.53E-07	5.53E-07
70040	UTILITY BOILER B-7	Chromium compounds	7440-47-3	0.1030	0.000012	8,760	1.48E-06	1.48E-06
70040	UTILITY BOILER B-7	Cobalt compounds	7440-48-4	0.0189	0.000002	8,760	2.71E-07	2.71E-07
70040	UTILITY BOILER B-7	Copper compounds	7440-50-8	0.3663	0.000042	8,760	5.27E-06	5.27E-06
70040	UTILITY BOILER B-7	Zinc compounds	7440-66-6	2.4057	0.000275	8,760	3.46E-05	3.46E-05
70040	UTILITY BOILER B-7	Ammonia	7664-41-7	2,670.7000	0.304874	8,760	3.84E-02	3.84E-02
70040	UTILITY BOILER B-7	Sulfuric acid	7664-93-9	322.5167	0.036817	8,760	4.64E-03	4.64E-03
70040	UTILITY BOILER B-7	Phosphorus	7723-14-0	2.8495	0.000325	8,760	4.10E-05	4.10E-05
70040	UTILITY BOILER B-7	Hydrogen sulfide	7783-06-4	1.6319	0.000186	8,760	2.35E-05	2.35E-05
70040	UTILITY BOILER B-7	Chromium, hexavalent	18540-29-9	0.0002	0.000000	8,760	3.55E-09	3.55E-09
70041	UTILITY BOILER B-8	Lead compounds	1128	0.4603	0.000053	8,760	6.62E-06	6.62E-06
70041	UTILITY BOILER B-8	Formaldehyde	50-00-0	290.8230	0.033199	8,760	4.18E-03	4.18E-03
70041	UTILITY BOILER B-8	Carbon disulfide	75-15-0	1.8862	0.000215	8,760	2.71E-05	2.71E-05
70041	UTILITY BOILER B-8	Methyl ethyl ketone	78-93-3	7.1044	0.000811	8,760	1.02E-04	1.02E-04
70041	UTILITY BOILER B-8	Phenanthrene (PAHs)	85-01-8	0.0038	0.000000	8,760	5.40E-08	5.40E-08
70041	UTILITY BOILER B-8	Naphthalene	91-20-3	0.0113	0.000001	8,760	1.63E-07	1.63E-07

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70041	UTILITY BOILER B-8	2-Methyl naphthalene (PAHs)	91-57-6	0.0041	0.000000	8,760	5.89E-08	5.89E-08
70041	UTILITY BOILER B-8	Acrolein	107-02-8	21.0010	0.002397	8,760	3.02E-04	3.02E-04
70041	UTILITY BOILER B-8	Phenol	108-95-2	4.9414	0.000564	8,760	7.11E-05	7.11E-05
70041	UTILITY BOILER B-8	Propylene	115-07-1	185.3027	0.021153	8,760	2.67E-03	2.67E-03
70041	UTILITY BOILER B-8	Pyrene	129-00-0	0.0012	0.000000	8,760	1.74E-08	1.74E-08
70041	UTILITY BOILER B-8	Dibenzofuran	132-64-9	0.0000	0.000000	8,760	7.58E-11	7.58E-11
70041	UTILITY BOILER B-8	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0006	0.000000	8,760	9.26E-09	9.26E-09
70041	UTILITY BOILER B-8	Fluoranthene (PAHs)	206-44-0	0.0014	0.000000	8,760	1.95E-08	1.95E-08
70041	UTILITY BOILER B-8	Aluminum	7429-90-5	18.3218	0.002092	8,760	2.64E-04	2.64E-04
70041	UTILITY BOILER B-8	Manganese compounds	7439-96-5	0.3266	0.000037	8,760	4.70E-06	4.70E-06
70041	UTILITY BOILER B-8	Mercury compounds	7439-97-6	0.0676	0.000008	8,760	9.72E-07	9.72E-07
70041	UTILITY BOILER B-8	Nickel compounds	7440-02-0	0.5235	0.000060	8,760	7.53E-06	7.53E-06
70041	UTILITY BOILER B-8	Antimony	7440-36-0	0.0105	0.000001	8,760	1.51E-07	1.51E-07
70041	UTILITY BOILER B-8	Barium	7440-39-3	0.7520	0.000086	8,760	1.08E-05	1.08E-05
70041	UTILITY BOILER B-8	Cadmium	7440-43-9	0.0351	0.000004	8,760	5.04E-07	5.04E-07
70041	UTILITY BOILER B-8	Chromium compounds	7440-47-3	0.0939	0.000011	8,760	1.35E-06	1.35E-06
70041	UTILITY BOILER B-8	Cobalt compounds	7440-48-4	0.0172	0.000002	8,760	2.47E-07	2.47E-07
70041	UTILITY BOILER B-8	Copper compounds	7440-50-8	0.3340	0.000038	8,760	4.80E-06	4.80E-06
70041	UTILITY BOILER B-8	Zinc compounds	7440-66-6	2.1936	0.000250	8,760	3.16E-05	3.16E-05
70041	UTILITY BOILER B-8	Ammonia	7664-41-7	302.4559	0.034527	8,760	4.35E-03	4.35E-03
70041	UTILITY BOILER B-8	Sulfuric acid	7664-93-9	341.6648	0.039003	8,760	4.91E-03	4.91E-03
70041	UTILITY BOILER B-8	Phosphorus	7723-14-0	2.5983	0.000297	8,760	3.74E-05	3.74E-05
70041	UTILITY BOILER B-8	Hydrogen sulfide	7783-06-4	1.4881	0.000170	8,760	2.14E-05	2.14E-05
70041	UTILITY BOILER B-8	Chromium, hexavalent	18540-29-9	0.0002	0.000000	8,760	3.24E-09	3.24E-09
70042	COGENERATION UNIT (HLNX, SCR)	Formaldehyde	50-00-0	2,284.1657	0.272704	8,376	3.29E-02	3.44E-02
70042	COGENERATION UNIT (HLNX, SCR)	3-Methylcholanthrene	56-49-5	0.0079	0.000001	8,376	1.14E-07	1.19E-07
70042	COGENERATION UNIT (HLNX, SCR)	Acetaldehyde	75-07-0	1,824.3661	0.217809	8,376	2.62E-02	2.74E-02
70042	COGENERATION UNIT (HLNX, SCR)	Toluene	108-88-3	38.1930	0.004560	8,376	5.49E-04	5.75E-04
70042	COGENERATION UNIT (HLNX, SCR)	Phenol	108-95-2	88.5571	0.010573	8,376	1.27E-03	1.33E-03
70042	COGENERATION UNIT (HLNX, SCR)	Dibenzofuran	132-64-9	0.0000	0.000000	8,376	1.18E-11	1.24E-11
70042	COGENERATION UNIT (HLNX, SCR)	Manganese compounds	7439-96-5	1.9097	0.000228	8,376	2.75E-05	2.87E-05
70042	COGENERATION UNIT (HLNX, SCR)	Mercury compounds	7439-97-6	0.2844	0.000034	8,376	4.09E-06	4.28E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70042	COGENERATION UNIT (HLNX, SCR)	Nickel compounds	7440-02-0	6.3037	0.000753	8,376	9.07E-05	9.48E-05
70042	COGENERATION UNIT (HLNX, SCR)	Barium	7440-39-3	9.3443	0.001116	8,376	1.34E-04	1.41E-04
70042	COGENERATION UNIT (HLNX, SCR)	Cadmium	7440-43-9	0.1569	0.000019	8,376	2.26E-06	2.36E-06
70042	COGENERATION UNIT (HLNX, SCR)	Chromium compounds	7440-47-3	2.6772	0.000320	8,376	3.85E-05	4.03E-05
70042	COGENERATION UNIT (HLNX, SCR)	Cobalt compounds	7440-48-4	0.3745	0.000045	8,376	5.39E-06	5.63E-06
70042	COGENERATION UNIT (HLNX, SCR)	Copper compounds	7440-50-8	2.3361	0.000279	8,376	3.36E-05	3.51E-05
70042	COGENERATION UNIT (HLNX, SCR)	Vanadium compounds	7440-62-2	0.5043	0.000060	8,376	7.25E-06	7.59E-06
70042	COGENERATION UNIT (HLNX, SCR)	Zinc compounds	7440-66-6	21.0247	0.002510	8,376	3.02E-04	3.16E-04
70042	COGENERATION UNIT (HLNX, SCR)	Ammonia	7664-41-7	39,305.4494	4.692628	8,376	5.65E-01	5.91E-01
70042	COGENERATION UNIT (HLNX, SCR)	Sulfuric acid	7664-93-9	1,109.9504	0.132516	8,376	1.60E-02	1.67E-02
70042	COGENERATION UNIT (HLNX, SCR)	Hydrogen sulfide	7783-06-4	125.2736	0.014956	8,376	1.80E-03	1.88E-03
70042	COGENERATION UNIT (HLNX, SCR)	Chromium, hexavalent	18540-29-9	0.0081	0.000001	8,376	1.17E-07	1.22E-07
70042	COGENERATION UNIT (HLNX, SCR)	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	0.0000	0.000000	8,376	2.18E-11	2.28E-11
70043	U60 E-119 CT	PAHs, total, w/o indiv. comp.	1151	0.0142	0.000002	8,232	2.04E-07	2.17E-07
70043	U60 E-119 CT	Benzene	71-43-2	0.2900	0.000035	8,232	4.17E-06	4.44E-06
70043	U60 E-119 CT	Ethylene	74-85-1	0.0611	0.000007	8,232	8.79E-07	9.35E-07
70043	U60 E-119 CT	Naphthalene	91-20-3	0.2841	0.000035	8,232	4.09E-06	4.35E-06
70043	U60 E-119 CT	1,2,4-Trimethylbenzene	95-63-6	0.0376	0.000005	8,232	5.41E-07	5.75E-07
70043	U60 E-119 CT	Cumene	98-82-8	0.0284	0.000003	8,232	4.09E-07	4.35E-07
70043	U60 E-119 CT	Ethyl benzene	100-41-4	0.0369	0.000004	8,232	5.31E-07	5.65E-07
70043	U60 E-119 CT	Styrene	100-42-5	0.0441	0.000005	8,232	6.35E-07	6.76E-07
70043	U60 E-119 CT	1,3-Butadiene	106-99-0	0.3886	0.000047	8,232	5.59E-06	5.95E-06
70043	U60 E-119 CT	Toluene	108-88-3	0.0350	0.000004	8,232	5.03E-07	5.35E-07
70043	U60 E-119 CT	Phenol	108-95-2	0.0028	0.000000	8,232	4.09E-08	4.35E-08
70043	U60 E-119 CT	Hexane	110-54-3	14.3484	0.001743	8,232	2.06E-04	2.20E-04
70043	U60 E-119 CT	Cyclohexane	110-82-7	24.4292	0.002968	8,232	3.51E-04	3.74E-04
70043	U60 E-119 CT	Propylene	115-07-1	7.2452	0.000880	8,232	1.04E-04	1.11E-04
70043	U60 E-119 CT	Cresol (mixed isomers)	1319-77-3	0.0085	0.000001	8,232	1.23E-07	1.30E-07
70043	U60 E-119 CT	Xylenes (mixed isomers)	1330-20-7	0.0824	0.000010	8,232	1.18E-06	1.26E-06
70043	U60 E-119 CT	Methyl tert-butyl ether	1634-04-4	0.0284	0.000003	8,232	4.09E-07	4.35E-07
70043	U60 E-119 CT	Hydrogen sulfide	7783-06-4	0.5026	0.000061	8,232	7.23E-06	7.69E-06
70044	U80 E-110 CT	PAHs, total, w/o indiv. comp.	1151	0.0037	0.000000	8,760	5.35E-08	5.35E-08

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70044	U80 E-110 CT	Benzene	71-43-2	0.6100	0.000070	8,760	8.77E-06	8.77E-06
70044	U80 E-110 CT	Ethylene	74-85-1	0.0113	0.000001	8,760	1.62E-07	1.62E-07
70044	U80 E-110 CT	Naphthalene	91-20-3	0.9995	0.000114	8,760	1.44E-05	1.44E-05
70044	U80 E-110 CT	1,2,4-Trimethylbenzene	95-63-6	6.9828	0.000797	8,760	1.00E-04	1.00E-04
70044	U80 E-110 CT	Cumene	98-82-8	0.2392	0.000027	8,760	3.44E-06	3.44E-06
70044	U80 E-110 CT	Ethyl benzene	100-41-4	3.5799	0.000409	8,760	5.15E-05	5.15E-05
70044	U80 E-110 CT	Styrene	100-42-5	0.0151	0.000002	8,760	2.17E-07	2.17E-07
70044	U80 E-110 CT	1,3-Butadiene	106-99-0	0.1349	0.000015	8,760	1.94E-06	1.94E-06
70044	U80 E-110 CT	Toluene	108-88-3	14.2235	0.001624	8,760	2.05E-04	2.05E-04
70044	U80 E-110 CT	Phenol	108-95-2	0.0007	0.000000	8,760	1.07E-08	1.07E-08
70044	U80 E-110 CT	Hexane	110-54-3	4.8561	0.000554	8,760	6.98E-05	6.98E-05
70044	U80 E-110 CT	Cyclohexane	110-82-7	6.4011	0.000731	8,760	9.21E-05	9.21E-05
70044	U80 E-110 CT	Propylene	115-07-1	3.4727	0.000396	8,760	4.99E-05	4.99E-05
70044	U80 E-110 CT	Cresol (mixed isomers)	1319-77-3	0.0022	0.000000	8,760	3.21E-08	3.21E-08
70044	U80 E-110 CT	Xylenes (mixed isomers)	1330-20-7	18.4933	0.002111	8,760	2.66E-04	2.66E-04
70044	U80 E-110 CT	Methyl tert-butyl ether	1634-04-4	0.0074	0.000001	8,760	1.07E-07	1.07E-07
70044	U80 E-110 CT	Hydrogen sulfide	7783-06-4	0.1212	0.000014	8,760	1.74E-06	1.74E-06
70045	U90 E-221 CT	PAHs, total, w/o indiv. comp.	1151	0.0513	0.000006	8,760	7.38E-07	7.38E-07
70045	U90 E-221 CT	Benzene	71-43-2	2.0001	0.000228	8,760	2.88E-05	2.88E-05
70045	U90 E-221 CT	Ethylene	74-85-1	0.1337	0.000015	8,760	1.92E-06	1.92E-06
70045	U90 E-221 CT	Naphthalene	91-20-3	5.1308	0.000586	8,760	7.38E-05	7.38E-05
70045	U90 E-221 CT	1,2,4-Trimethylbenzene	95-63-6	4.3477	0.000496	8,760	6.25E-05	6.25E-05
70045	U90 E-221 CT	Cumene	98-82-8	1.3178	0.000150	8,760	1.90E-05	1.90E-05
70045	U90 E-221 CT	Ethyl benzene	100-41-4	5.8077	0.000663	8,760	8.35E-05	8.35E-05
70045	U90 E-221 CT	Styrene	100-42-5	0.5131	0.000059	8,760	7.38E-06	7.38E-06
70045	U90 E-221 CT	1,3-Butadiene	106-99-0	0.1337	0.000015	8,760	1.92E-06	1.92E-06
70045	U90 E-221 CT	Toluene	108-88-3	10.7044	0.001222	8,760	1.54E-04	1.54E-04
70045	U90 E-221 CT	Phenol	108-95-2	0.0103	0.000001	8,760	1.48E-07	1.48E-07
70045	U90 E-221 CT	Hexane	110-54-3	69.5651	0.007941	8,760	1.00E-03	1.00E-03
70045	U90 E-221 CT	Cyclohexane	110-82-7	7.7880	0.000889	8,760	1.12E-04	1.12E-04
70045	U90 E-221 CT	Propylene	115-07-1	0.1337	0.000015	8,760	1.92E-06	1.92E-06
70045	U90 E-221 CT	Cresol (mixed isomers)	1319-77-3	0.0308	0.000004	8,760	4.43E-07	4.43E-07

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70045	U90 E-221 CT	Xylenes (mixed isomers)	1330-20-7	19.7904	0.002259	8,760	2.85E-04	2.85E-04
70045	U90 E-221 CT	Methyl tert-butyl ether	1634-04-4	0.5131	0.000059	8,760	7.38E-06	7.38E-06
70045	U90 E-221 CT	Hydrogen sulfide	7783-06-4	0.0005	0.000000	8,760	7.77E-09	7.77E-09
70046	U100 CT-600	PAHs, total, w/o indiv. comp.	1151	0.0089	0.000001	8,760	1.29E-07	1.29E-07
70046	U100 CT-600	Benzene	71-43-2	1.4657	0.000167	8,760	2.11E-05	2.11E-05
70046	U100 CT-600	Ethylene	74-85-1	0.0271	0.000003	8,760	3.90E-07	3.90E-07
70046	U100 CT-600	Naphthalene	91-20-3	2.4015	0.000274	8,760	3.45E-05	3.45E-05
70046	U100 CT-600	1,2,4-Trimethylbenzene	95-63-6	16.7781	0.001915	8,760	2.41E-04	2.41E-04
70046	U100 CT-600	Cumene	98-82-8	0.5748	0.000066	8,760	8.27E-06	8.27E-06
70046	U100 CT-600	Ethyl benzene	100-41-4	8.6018	0.000982	8,760	1.24E-04	1.24E-04
70046	U100 CT-600	Styrene	100-42-5	0.0363	0.000004	8,760	5.22E-07	5.22E-07
70046	U100 CT-600	1,3-Butadiene	106-99-0	0.3241	0.000037	8,760	4.66E-06	4.66E-06
70046	U100 CT-600	Toluene	108-88-3	34.1759	0.003901	8,760	4.92E-04	4.92E-04
70046	U100 CT-600	Phenol	108-95-2	0.0018	0.000000	8,760	2.57E-08	2.57E-08
70046	U100 CT-600	Hexane	110-54-3	11.6683	0.001332	8,760	1.68E-04	1.68E-04
70046	U100 CT-600	Cyclohexane	110-82-7	15.3804	0.001756	8,760	2.21E-04	2.21E-04
70046	U100 CT-600	Propylene	115-07-1	8.3442	0.000953	8,760	1.20E-04	1.20E-04
70046	U100 CT-600	Cresol (mixed isomers)	1319-77-3	0.0054	0.000001	8,760	7.72E-08	7.72E-08
70046	U100 CT-600	Xylenes (mixed isomers)	1330-20-7	44.4353	0.005073	8,760	6.39E-04	6.39E-04
70046	U100 CT-600	Methyl tert-butyl ether	1634-04-4	0.0179	0.000002	8,760	2.57E-07	2.57E-07
70046	U100 CT-600	Hydrogen sulfide	7783-06-4	0.2913	0.000033	8,760	4.19E-06	4.19E-06
70047	U110CT	Benzene	71-43-2	0.0914	0.000012	7,608	1.31E-06	1.51E-06
70047	U110CT	Ethylene	74-85-1	0.0860	0.000011	7,608	1.24E-06	1.42E-06
70047	U110CT	1,2,4-Trimethylbenzene	95-63-6	0.2393	0.000031	7,608	3.44E-06	3.96E-06
70047	U110CT	Ethyl benzene	100-41-4	0.1694	0.000022	7,608	2.44E-06	2.80E-06
70047	U110CT	Styrene	100-42-5	0.0645	0.000008	7,608	9.28E-07	1.07E-06
70047	U110CT	1,3-Butadiene	106-99-0	1.4664	0.000193	7,608	2.11E-05	2.43E-05
70047	U110CT	Toluene	108-88-3	0.6989	0.000092	7,608	1.01E-05	1.16E-05
70047	U110CT	Hexane	110-54-3	0.2851	0.000037	7,608	4.10E-06	4.72E-06
70047	U110CT	Cyclohexane	110-82-7	0.0685	0.000009	7,608	9.86E-07	1.14E-06
70047	U110CT	Propylene	115-07-1	29.5837	0.003889	7,608	4.26E-04	4.90E-04
70047	U110CT	Xylenes (mixed isomers)	1330-20-7	0.9113	0.000120	7,608	1.31E-05	1.51E-05

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70047	U110CT	Hydrogen sulfide	7783-06-4	2.1909	0.000288	7,608	3.15E-05	3.63E-05
70048	U120 E-121 CT	PAHs, total, w/o indiv. comp.	1151	0.0118	0.000001	8,760	1.69E-07	1.69E-07
70048	U120 E-121 CT	Benzene	71-43-2	0.0251	0.000003	8,760	3.62E-07	3.62E-07
70048	U120 E-121 CT	Ethylene	74-85-1	0.0216	0.000002	8,760	3.11E-07	3.11E-07
70048	U120 E-121 CT	Naphthalene	91-20-3	0.2853	0.000033	8,760	4.10E-06	4.10E-06
70048	U120 E-121 CT	1,2,4-Trimethylbenzene	95-63-6	0.5764	0.000066	8,760	8.29E-06	8.29E-06
70048	U120 E-121 CT	Cumene	98-82-8	0.0131	0.000001	8,760	1.88E-07	1.88E-07
70048	U120 E-121 CT	Ethyl benzene	100-41-4	0.9744	0.000111	8,760	1.40E-05	1.40E-05
70048	U120 E-121 CT	Styrene	100-42-5	0.0235	0.000003	8,760	3.38E-07	3.38E-07
70048	U120 E-121 CT	1,3-Butadiene	106-99-0	0.2634	0.000030	8,760	3.79E-06	3.79E-06
70048	U120 E-121 CT	Toluene	108-88-3	0.1982	0.000023	8,760	2.85E-06	2.85E-06
70048	U120 E-121 CT	Phenol	108-95-2	0.0034	0.000000	8,760	4.86E-08	4.86E-08
70048	U120 E-121 CT	Hexane	110-54-3	0.0066	0.000001	8,760	9.46E-08	9.46E-08
70048	U120 E-121 CT	Cyclohexane	110-82-7	0.0034	0.000000	8,760	4.83E-08	4.83E-08
70048	U120 E-121 CT	Propylene	115-07-1	4.8145	0.000550	8,760	6.92E-05	6.92E-05
70048	U120 E-121 CT	Anthracene	120-12-7	0.0040	0.000000	8,760	5.78E-08	5.78E-08
70048	U120 E-121 CT	Cresol (mixed isomers)	1319-77-3	0.0088	0.000001	8,760	1.26E-07	1.26E-07
70048	U120 E-121 CT	Xylenes (mixed isomers)	1330-20-7	4.9136	0.000561	8,760	7.07E-05	7.07E-05
70048	U120 E-121 CT	Methyl tert-butyl ether	1634-04-4	0.0131	0.000001	8,760	1.88E-07	1.88E-07
70048	U120 E-121 CT	Hydrogen sulfide	7783-06-4	0.4179	0.000048	8,760	6.01E-06	6.01E-06
70051	U152 E-650 CT	PAHs, total, w/o indiv. comp.	1151	0.2064	0.000032	6,552	2.97E-06	3.97E-06
70051	U152 E-650 CT	Benzene	71-43-2	14.2084	0.002169	6,552	2.04E-04	2.73E-04
70051	U152 E-650 CT	Ethylene	74-85-1	0.2999	0.000046	6,552	4.31E-06	5.77E-06
70051	U152 E-650 CT	Naphthalene	91-20-3	19.3845	0.002959	6,552	2.79E-04	3.73E-04
70051	U152 E-650 CT	1,2,4-Trimethylbenzene	95-63-6	8.2906	0.001265	6,552	1.19E-04	1.59E-04
70051	U152 E-650 CT	Cumene	98-82-8	0.5780	0.000088	6,552	8.31E-06	1.11E-05
70051	U152 E-650 CT	Ethyl benzene	100-41-4	22.0792	0.003370	6,552	3.18E-04	4.25E-04
70051	U152 E-650 CT	Styrene	100-42-5	0.7762	0.000118	6,552	1.12E-05	1.49E-05
70051	U152 E-650 CT	1,3-Butadiene	106-99-0	3.8465	0.000587	6,552	5.53E-05	7.40E-05
70051	U152 E-650 CT	Toluene	108-88-3	75.5907	0.011537	6,552	1.09E-03	1.45E-03
70051	U152 E-650 CT	Phenol	108-95-2	0.0413	0.000006	6,552	5.94E-07	7.94E-07
70051	U152 E-650 CT	Hexane	110-54-3	395.4589	0.060357	6,552	5.69E-03	7.60E-03

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70051	U152 E-650 CT	Cyclohexane	110-82-7	4.2883	0.000655	6,552	6.17E-05	8.25E-05
70051	U152 E-650 CT	Propylene	115-07-1	90.2409	0.013773	6,552	1.30E-03	1.74E-03
70051	U152 E-650 CT	Cresol (mixed isomers)	1319-77-3	0.1858	0.000028	6,552	2.67E-06	3.57E-06
70051	U152 E-650 CT	Xylenes (mixed isomers)	1330-20-7	118.6661	0.018111	6,552	1.71E-03	2.28E-03
70051	U152 E-650 CT	Methyl tert-butyl ether	1634-04-4	0.5780	0.000088	6,552	8.31E-06	1.11E-05
70051	U152 E-650 CT	Nickel compounds	7440-02-0	0.0001	0.000000	6,552	9.50E-10	1.27E-09
70051	U152 E-650 CT	Hydrogen sulfide	7783-06-4	4.3360	0.000662	6,552	6.24E-05	8.34E-05
70052	U152 E-652 CT	PAHs, total, w/o indiv. comp.	1151	0.1216	0.000015	7,896	1.75E-06	1.94E-06
70052	U152 E-652 CT	Benzene	71-43-2	8.3706	0.001060	7,896	1.20E-04	1.34E-04
70052	U152 E-652 CT	Ethylene	74-85-1	0.1812	0.000023	7,896	2.61E-06	2.89E-06
70052	U152 E-652 CT	Naphthalene	91-20-3	11.2010	0.001419	7,896	1.61E-04	1.79E-04
70052	U152 E-652 CT	1,2,4-Trimethylbenzene	95-63-6	5.1761	0.000656	7,896	7.44E-05	8.26E-05
70052	U152 E-652 CT	Cumene	98-82-8	0.3405	0.000043	7,896	4.90E-06	5.43E-06
70052	U152 E-652 CT	Ethyl benzene	100-41-4	13.0805	0.001657	7,896	1.88E-04	2.09E-04
70052	U152 E-652 CT	Styrene	100-42-5	0.4573	0.000058	7,896	6.58E-06	7.30E-06
70052	U152 E-652 CT	1,3-Butadiene	106-99-0	2.2706	0.000288	7,896	3.27E-05	3.62E-05
70052	U152 E-652 CT	Toluene	108-88-3	44.7150	0.005663	7,896	6.43E-04	7.14E-04
70052	U152 E-652 CT	Phenol	108-95-2	0.0243	0.000003	7,896	3.50E-07	3.88E-07
70052	U152 E-652 CT	Hexane	110-54-3	233.8129	0.029612	7,896	3.36E-03	3.73E-03
70052	U152 E-652 CT	Cyclohexane	110-82-7	2.6445	0.000335	7,896	3.80E-05	4.22E-05
70052	U152 E-652 CT	Propylene	115-07-1	53.1679	0.006734	7,896	7.65E-04	8.48E-04
70052	U152 E-652 CT	Cresol (mixed isomers)	1319-77-3	0.1095	0.000014	7,896	1.57E-06	1.75E-06
70052	U152 E-652 CT	Xylenes (mixed isomers)	1330-20-7	70.2743	0.008900	7,896	1.01E-03	1.12E-03
70052	U152 E-652 CT	Methyl tert-butyl ether	1634-04-4	0.3405	0.000043	7,896	4.90E-06	5.43E-06
70052	U152 E-652 CT	Hydrogen sulfide	7783-06-4	2.5545	0.000324	7,896	3.67E-05	4.08E-05
70053	U118 HTR-H401 (HLNX, 5CR)	Lead compounds	1128	0.7067	0.000085	8,287	1.02E-05	1.07E-05
70053	U118 HTR-H401 (HLNX, 5CR)	Formaldehyde	50-00-0	122.6159	0.014796	8,287	1.76E-03	1.86E-03
70053	U118 HTR-H401 (HLNX, 5CR)	Benzo(a)pyrene	50-32-8	0.1204	0.000015	8,287	1.73E-06	1.83E-06
70053	U118 HTR-H401 (HLNX, 5CR)	Dibenz(a,h)anthracene (PAHs)	53-70-3	0.0032	0.000000	8,287	4.56E-08	4.82E-08
70053	U118 HTR-H401 (HLNX, 5CR)	Benz(a)anthracene (PAHs)	56-55-3	0.0465	0.000006	8,287	6.68E-07	7.07E-07
70053	U118 HTR-H401 (HLNX, 5CR)	Methanol	67-56-1	8.2195	0.000992	8,287	1.18E-04	1.25E-04
70053	U118 HTR-H401 (HLNX, 5CR)	Benzene	71-43-2	3.3459	0.000404	8,287	4.81E-05	5.09E-05

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70053	U118 HTR-H401 (HLNX, 5CR)	Acetaldehyde	75-07-0	141.5248	0.017078	8,287	2.04E-03	2.15E-03
70053	U118 HTR-H401 (HLNX, 5CR)	Acenaphthene (PAHs)	83-32-9	0.0031	0.000000	8,287	4.43E-08	4.68E-08
70053	U118 HTR-H401 (HLNX, 5CR)	Phenanthrene (PAHs)	85-01-8	0.0517	0.000006	8,287	7.44E-07	7.87E-07
70053	U118 HTR-H401 (HLNX, 5CR)	Fluorene (PAHs)	86-73-7	0.0093	0.000001	8,287	1.34E-07	1.42E-07
70053	U118 HTR-H401 (HLNX, 5CR)	Naphthalene	91-20-3	0.0469	0.000006	8,287	6.75E-07	7.13E-07
70053	U118 HTR-H401 (HLNX, 5CR)	2-Methyl naphthalene (PAHs)	91-57-6	0.0227	0.000003	8,287	3.26E-07	3.45E-07
70053	U118 HTR-H401 (HLNX, 5CR)	Ethyl benzene	100-41-4	0.8938	0.000108	8,287	1.29E-05	1.36E-05
70053	U118 HTR-H401 (HLNX, 5CR)	1,3-Butadiene	106-99-0	0.4544	0.000055	8,287	6.54E-06	6.91E-06
70053	U118 HTR-H401 (HLNX, 5CR)	Acrolein	107-02-8	35.9113	0.004333	8,287	5.17E-04	5.46E-04
70053	U118 HTR-H401 (HLNX, 5CR)	Toluene	108-88-3	316.8644	0.038236	8,287	4.56E-03	4.82E-03
70053	U118 HTR-H401 (HLNX, 5CR)	Phenol	108-95-2	8.4497	0.001020	8,287	1.22E-04	1.28E-04
70053	U118 HTR-H401 (HLNX, 5CR)	Hexane	110-54-3	10.6849	0.001289	8,287	1.54E-04	1.62E-04
70053	U118 HTR-H401 (HLNX, 5CR)	Propylene	115-07-1	316.8644	0.038236	8,287	4.56E-03	4.82E-03
70053	U118 HTR-H401 (HLNX, 5CR)	Anthracene	120-12-7	0.0041	0.000000	8,287	5.95E-08	6.29E-08
70053	U118 HTR-H401 (HLNX, 5CR)	Pyrene	129-00-0	0.0041	0.000000	8,287	5.85E-08	6.18E-08
70053	U118 HTR-H401 (HLNX, 5CR)	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0024	0.000000	8,287	3.51E-08	3.71E-08
70053	U118 HTR-H401 (HLNX, 5CR)	Indeno(1,2,3-cd)pyrene (PAHs)	193-39-5	0.1500	0.000018	8,287	2.16E-06	2.28E-06
70053	U118 HTR-H401 (HLNX, 5CR)	Benzo(b)fluoranthene (PAHs)	205-99-2	0.0570	0.000007	8,287	8.20E-07	8.67E-07
70053	U118 HTR-H401 (HLNX, 5CR)	Fluoranthene (PAHs)	206-44-0	0.0096	0.000001	8,287	1.38E-07	1.46E-07
70053	U118 HTR-H401 (HLNX, 5CR)	Benzo(k)fluoranthene (PAHs)	207-08-9	0.0359	0.000004	8,287	5.17E-07	5.46E-07
70053	U118 HTR-H401 (HLNX, 5CR)	Acenaphthylene (PAHs)	208-96-8	0.0021	0.000000	8,287	2.95E-08	3.12E-08
70053	U118 HTR-H401 (HLNX, 5CR)	Chrysene (PAHs)	218-01-9	0.0034	0.000000	8,287	4.86E-08	5.14E-08
70053	U118 HTR-H401 (HLNX, 5CR)	Xylenes (mixed isomers)	1330-20-7	7.0125	0.000846	8,287	1.01E-04	1.07E-04
70053	U118 HTR-H401 (HLNX, 5CR)	Manganese compounds	7439-96-5	0.6429	0.000078	8,287	9.25E-06	9.78E-06
70053	U118 HTR-H401 (HLNX, 5CR)	Mercury compounds	7439-97-6	0.0245	0.000003	8,287	3.53E-07	3.73E-07
70053	U118 HTR-H401 (HLNX, 5CR)	Nickel compounds	7440-02-0	2.3192	0.000280	8,287	3.34E-05	3.53E-05
70053	U118 HTR-H401 (HLNX, 5CR)	Antimony	7440-36-0	1.0985	0.000133	8,287	1.58E-05	1.67E-05
70053	U118 HTR-H401 (HLNX, 5CR)	Arsenic	7440-38-2	1.5209	0.000184	8,287	2.19E-05	2.31E-05
70053	U118 HTR-H401 (HLNX, 5CR)	Barium	7440-39-3	0.7858	0.000095	8,287	1.13E-05	1.19E-05
70053	U118 HTR-H401 (HLNX, 5CR)	Beryllium	7440-41-7	0.2746	0.000033	8,287	3.95E-06	4.18E-06
70053	U118 HTR-H401 (HLNX, 5CR)	Cadmium	7440-43-9	0.2429	0.000029	8,287	3.49E-06	3.69E-06
70053	U118 HTR-H401 (HLNX, 5CR)	Chromium compounds	7440-47-3	0.7948	0.000096	8,287	1.14E-05	1.21E-05

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70053	U118 HTR-H401 (HLNX, 5CR)	Copper compounds	7440-50-8	0.8675	0.000105	8,287	1.25E-05	1.32E-05
70053	U118 HTR-H401 (HLNX, 5CR)	Vanadium compounds	7440-62-2	0.3470	0.000042	8,287	4.99E-06	5.28E-06
70053	U118 HTR-H401 (HLNX, 5CR)	Zinc compounds	7440-66-6	12.9101	0.001558	8,287	1.86E-04	1.96E-04
70053	U118 HTR-H401 (HLNX, 5CR)	Ammonia	7664-41-7	8,731.7946	1.053674	8,287	1.26E-01	1.33E-01
70053	U118 HTR-H401 (HLNX, 5CR)	Sulfuric acid	7664-93-9	107.0506	0.012918	8,287	1.54E-03	1.63E-03
70053	U118 HTR-H401 (HLNX, 5CR)	Selenium compounds	7782-49-2	0.3546	0.000043	8,287	5.10E-06	5.39E-06
70053	U118 HTR-H401 (HLNX, 5CR)	Hydrogen sulfide	7783-06-4	11.2542	0.001358	8,287	1.62E-04	1.71E-04
70053	U118 HTR-H401 (HLNX, 5CR)	Chromium, hexavalent	18540-29-9	0.0516	0.000006	8,287	7.42E-07	7.84E-07
70055	ACID PLANT STARTUP HEATER	Lead compounds	1128	0.0028	0.000059	48	4.07E-08	7.44E-06
70055	ACID PLANT STARTUP HEATER	Formaldehyde	50-00-0	0.0087	0.000182	48	1.26E-07	2.29E-05
70055	ACID PLANT STARTUP HEATER	Benzo(a)pyrene	50-32-8	0.0000	0.000001	48	6.11E-10	1.12E-07
70055	ACID PLANT STARTUP HEATER	Dibenz(a,h)anthracene (PAHs)	53-70-3	0.0000	0.000000	48	1.61E-11	2.94E-09
70055	ACID PLANT STARTUP HEATER	Benz(a)anthracene (PAHs)	56-55-3	0.0000	0.000000	48	2.36E-10	4.31E-08
70055	ACID PLANT STARTUP HEATER	Benzene	71-43-2	0.0041	0.000086	48	5.92E-08	1.08E-05
70055	ACID PLANT STARTUP HEATER	Acetaldehyde	75-07-0	0.0022	0.000046	48	3.17E-08	5.78E-06
70055	ACID PLANT STARTUP HEATER	Phenanthrene (PAHs)	85-01-8	0.0000	0.000000	48	3.43E-10	6.26E-08
70055	ACID PLANT STARTUP HEATER	Naphthalene	91-20-3	0.0002	0.000004	48	3.06E-09	5.59E-07
70055	ACID PLANT STARTUP HEATER	Ethyl benzene	100-41-4	0.0049	0.000102	48	7.05E-08	1.29E-05
70055	ACID PLANT STARTUP HEATER	Acrolein	107-02-8	0.0019	0.000040	48	2.76E-08	5.03E-06
70055	ACID PLANT STARTUP HEATER	Toluene	108-88-3	0.0188	0.000392	48	2.71E-07	4.94E-05
70055	ACID PLANT STARTUP HEATER	Phenol	108-95-2	0.0030	0.000062	48	4.29E-08	7.83E-06
70055	ACID PLANT STARTUP HEATER	Hexane	110-54-3	0.0033	0.000068	48	4.70E-08	8.57E-06
70055	ACID PLANT STARTUP HEATER	Propylene	115-07-1	0.3763	0.007840	48	5.41E-06	9.88E-04
70055	ACID PLANT STARTUP HEATER	Anthracene	120-12-7	0.0000	0.000000	48	5.04E-11	9.20E-09
70055	ACID PLANT STARTUP HEATER	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0000	0.000000	48	1.39E-11	2.54E-09
70055	ACID PLANT STARTUP HEATER	Indeno(1,2,3-cd)pyrene (PAHs)	193-39-5	0.0001	0.000001	48	7.61E-10	1.39E-07
70055	ACID PLANT STARTUP HEATER	Benzo(b)fluoranthene (PAHs)	205-99-2	0.0000	0.000000	48	2.90E-10	5.28E-08
70055	ACID PLANT STARTUP HEATER	Fluoranthene (PAHs)	206-44-0	0.0000	0.000000	48	9.33E-11	1.70E-08
70055	ACID PLANT STARTUP HEATER	Benzo(k)fluoranthene (PAHs)	207-08-9	0.0000	0.000000	48	1.82E-10	3.33E-08
70055	ACID PLANT STARTUP HEATER	Chrysene (PAHs)	218-01-9	0.0000	0.000000	48	1.72E-11	3.13E-09
70055	ACID PLANT STARTUP HEATER	Xylenes (mixed isomers)	1330-20-7	0.0140	0.000291	48	2.01E-07	3.67E-05
70055	ACID PLANT STARTUP HEATER	Manganese compounds	7439-96-5	0.0037	0.000076	48	5.25E-08	9.59E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70055	ACID PLANT STARTUP HEATER	Mercury compounds	7439-97-6	0.0001	0.000003	48	1.93E-09	3.52E-07
70055	ACID PLANT STARTUP HEATER	Nickel compounds	7440-02-0	0.0056	0.000116	48	8.04E-08	1.47E-05
70055	ACID PLANT STARTUP HEATER	Antimony	7440-36-0	0.0004	0.000008	48	5.58E-09	1.02E-06
70055	ACID PLANT STARTUP HEATER	Arsenic	7440-38-2	0.0005	0.000011	48	7.72E-09	1.41E-06
70055	ACID PLANT STARTUP HEATER	Barium	7440-39-3	0.0043	0.000090	48	6.22E-08	1.13E-05
70055	ACID PLANT STARTUP HEATER	Beryllium	7440-41-7	0.0001	0.000002	48	1.39E-09	2.54E-07
70055	ACID PLANT STARTUP HEATER	Cadmium	7440-43-9	0.0011	0.000023	48	1.61E-08	2.94E-06
70055	ACID PLANT STARTUP HEATER	Chromium compounds	7440-47-3	0.0042	0.000089	48	6.11E-08	1.12E-05
70055	ACID PLANT STARTUP HEATER	Copper compounds	7440-50-8	0.0035	0.000073	48	5.04E-08	9.20E-06
70055	ACID PLANT STARTUP HEATER	Zinc compounds	7440-66-6	0.0395	0.000823	48	5.68E-07	1.04E-04
70055	ACID PLANT STARTUP HEATER	Ammonia	7664-41-7	2.2720	0.047333	48	3.27E-05	5.96E-03
70055	ACID PLANT STARTUP HEATER	Hydrogen sulfide	7783-06-4	0.0634	0.001320	48	9.11E-07	1.66E-04
70056	U141 HRT - ACID PLANT STACK	PAHs, total, w/o indiv. comp.	1151	0.0060	0.000001	7,776	8.65E-08	9.75E-08
70056	U141 HRT - ACID PLANT STACK	Benzene	71-43-2	1.0233	0.000132	7,776	1.47E-05	1.66E-05
70056	U141 HRT - ACID PLANT STACK	Acetaldehyde	75-07-0	0.7752	0.000100	7,776	1.11E-05	1.26E-05
70056	U141 HRT - ACID PLANT STACK	Naphthalene	91-20-3	0.0253	0.000003	7,776	3.63E-07	4.09E-07
70056	U141 HRT - ACID PLANT STACK	Toluene	108-88-3	1.2248	0.000158	7,776	1.76E-05	1.98E-05
70056	U141 HRT - ACID PLANT STACK	Phenol	108-95-2	0.0602	0.000008	7,776	8.66E-07	9.76E-07
70056	U141 HRT - ACID PLANT STACK	Manganese compounds	7439-96-5	0.3411	0.000044	7,776	4.91E-06	5.53E-06
70056	U141 HRT - ACID PLANT STACK	Mercury compounds	7439-97-6	0.0078	0.000001	7,776	1.13E-07	1.27E-07
70056	U141 HRT - ACID PLANT STACK	Silver compounds	7440-22-4	0.0416	0.000005	7,776	5.99E-07	6.75E-07
70056	U141 HRT - ACID PLANT STACK	Arsenic	7440-38-2	0.0775	0.000010	7,776	1.11E-06	1.26E-06
70056	U141 HRT - ACID PLANT STACK	Beryllium	7440-41-7	0.0209	0.000003	7,776	3.00E-07	3.38E-07
70056	U141 HRT - ACID PLANT STACK	Cadmium	7440-43-9	0.0511	0.000007	7,776	7.35E-07	8.28E-07
70056	U141 HRT - ACID PLANT STACK	Chromium compounds	7440-47-3	0.0416	0.000005	7,776	5.99E-07	6.75E-07
70056	U141 HRT - ACID PLANT STACK	Zinc compounds	7440-66-6	1.0388	0.000134	7,776	1.49E-05	1.68E-05
70056	U141 HRT - ACID PLANT STACK	Sulfuric acid	7664-93-9	1,458.5172	0.187567	7,776	2.10E-02	2.36E-02
70056	U141 HRT - ACID PLANT STACK	Selenium compounds	7782-49-2	0.2085	0.000027	7,776	3.00E-06	3.38E-06
70057	COGEN START-UP ENGINE	Diesel exhaust particulates	9901	5.4920	0.249635	22	7.90E-05	3.15E-02
70058	COGEN DUCT-BURNER	Formaldehyde	50-00-0	142.5235	0.017016	8,376	2.05E-03	2.14E-03
70058	COGEN DUCT-BURNER	Acetaldehyde	75-07-0	113.8337	0.013590	8,376	1.64E-03	1.71E-03
70058	COGEN DUCT-BURNER	2-Methyl naphthalene (PAHs)	91-57-6	0.0005	0.000000	8,376	7.09E-09	7.41E-09

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70058	COGEN DUCT-BURNER	Toluene	108-88-3	2.3831	0.000285	8,376	3.43E-05	3.58E-05
70058	COGEN DUCT-BURNER	Phenol	108-95-2	5.5256	0.000660	8,376	7.95E-05	8.31E-05
70058	COGEN DUCT-BURNER	Dibenzofuran	132-64-9	0.0000	0.000000	8,376	7.39E-13	7.73E-13
70058	COGEN DUCT-BURNER	Manganese compounds	7439-96-5	0.1192	0.000014	8,376	1.71E-06	1.79E-06
70058	COGEN DUCT-BURNER	Mercury compounds	7439-97-6	0.0177	0.000002	8,376	2.55E-07	2.67E-07
70058	COGEN DUCT-BURNER	Nickel compounds	7440-02-0	0.3933	0.000047	8,376	5.66E-06	5.92E-06
70058	COGEN DUCT-BURNER	Barium	7440-39-3	0.5831	0.000070	8,376	8.39E-06	8.77E-06
70058	COGEN DUCT-BURNER	Cadmium	7440-43-9	0.0098	0.000001	8,376	1.41E-07	1.47E-07
70058	COGEN DUCT-BURNER	Chromium compounds	7440-47-3	0.1670	0.000020	8,376	2.40E-06	2.51E-06
70058	COGEN DUCT-BURNER	Cobalt compounds	7440-48-4	0.0234	0.000003	8,376	3.36E-07	3.52E-07
70058	COGEN DUCT-BURNER	Copper compounds	7440-50-8	0.1458	0.000017	8,376	2.10E-06	2.19E-06
70058	COGEN DUCT-BURNER	Vanadium compounds	7440-62-2	0.0315	0.000004	8,376	4.53E-07	4.73E-07
70058	COGEN DUCT-BURNER	Zinc compounds	7440-66-6	1.3119	0.000157	8,376	1.89E-05	1.97E-05
70058	COGEN DUCT-BURNER	Ammonia	7664-41-7	2,452.5155	0.292803	8,376	3.53E-02	3.69E-02
70058	COGEN DUCT-BURNER	Sulfuric acid	7664-93-9	70.1245	0.008372	8,376	1.01E-03	1.05E-03
70058	COGEN DUCT-BURNER	Hydrogen sulfide	7783-06-4	0.4144	0.000049	8,376	5.96E-06	6.23E-06
70058	COGEN DUCT-BURNER	Chromium, hexavalent	18540-29-9	0.0005	0.000000	8,376	7.29E-09	7.62E-09
70058	COGEN DUCT-BURNER	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	0.0000	0.000000	8,376	1.36E-12	1.42E-12
70059	EMERGENCY FIREWATER #1 [TK 210]	Diesel exhaust particulates	9901	9.6691	0.235832	41	1.39E-04	2.97E-02
70060	EMERGENCY FIREWATER #2 [TK 210]	Diesel exhaust particulates	9901	8.7516	0.236530	37	1.26E-04	2.98E-02
70062	FIRE WATER PUMP, #3622 [RD 14]	Diesel exhaust particulates	9901	13.6707	0.506324	27	1.97E-04	6.38E-02
70063	FIRE WATER PUMP, #3621 [RD 14]	Diesel exhaust particulates	9901	16.8844	0.511648	33	2.43E-04	6.45E-02
70064	INDUSTRIAL W. PUMP, CATERPILLAR	Diesel exhaust particulates	9901	1.2205	0.406837	3	1.76E-05	5.13E-02
70070	HYDROGEN PLANT U-119	Methanol	67-56-1	5,040.0346	0.604321	8,340	7.25E-02	7.61E-02
70071	GW THERMAL OXIDIZER	PAHs, total, w/o indiv. comp.	1151	0.0294	0.000029	1,008	4.23E-07	3.68E-06
70071	GW THERMAL OXIDIZER	Formaldehyde	50-00-0	25.5081	0.025306	1,008	3.67E-04	3.19E-03
70071	GW THERMAL OXIDIZER	Methanol	67-56-1	1.2068	0.001197	1,008	1.74E-05	1.51E-04
70071	GW THERMAL OXIDIZER	Benzene	71-43-2	0.2125	0.000211	1,008	3.06E-06	2.66E-05
70071	GW THERMAL OXIDIZER	Acetaldehyde	75-07-0	4.0368	0.004005	1,008	5.81E-05	5.05E-04
70071	GW THERMAL OXIDIZER	Phenanthrene (PAHs)	85-01-8	0.0004	0.000000	1,008	6.08E-09	5.28E-08
70071	GW THERMAL OXIDIZER	Naphthalene	91-20-3	0.0359	0.000036	1,008	5.17E-07	4.49E-06
70071	GW THERMAL OXIDIZER	1,2,4-Trimethylbenzene	95-63-6	0.0069	0.000007	1,008	9.94E-08	8.64E-07

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70071	GW THERMAL OXIDIZER	Ethyl benzene	100-41-4	0.0192	0.000019	1,008	2.76E-07	2.40E-06
70071	GW THERMAL OXIDIZER	Styrene	100-42-5	0.0114	0.000011	1,008	1.64E-07	1.43E-06
70071	GW THERMAL OXIDIZER	1,3-Butadiene	106-99-0	0.1287	0.000128	1,008	1.85E-06	1.61E-05
70071	GW THERMAL OXIDIZER	Acrolein	107-02-8	2.4798	0.002460	1,008	3.57E-05	3.10E-04
70071	GW THERMAL OXIDIZER	Toluene	108-88-3	0.1969	0.000195	1,008	2.83E-06	2.46E-05
70071	GW THERMAL OXIDIZER	Phenol	108-95-2	0.0119	0.000012	1,008	1.72E-07	1.49E-06
70071	GW THERMAL OXIDIZER	Hexane	110-54-3	0.5348	0.000531	1,008	7.69E-06	6.68E-05
70071	GW THERMAL OXIDIZER	Propylene	115-07-1	8.4475	0.008380	1,008	1.22E-04	1.06E-03
70071	GW THERMAL OXIDIZER	Xylenes (mixed isomers)	1330-20-7	0.0890	0.000088	1,008	1.28E-06	1.11E-05
70071	GW THERMAL OXIDIZER	Ammonia	7664-41-7	1.5144	0.001502	1,008	2.18E-05	1.89E-04
70073	NON-PERMITTED ICES - GASOLINE	Formaldehyde	50-00-0	7.0307	0.000803	8,760	1.01E-04	1.01E-04
70073	NON-PERMITTED ICES - GASOLINE	Methanol	67-56-1	1.6760	0.000191	8,760	2.41E-05	2.41E-05
70073	NON-PERMITTED ICES - GASOLINE	Benzene	71-43-2	10.9135	0.001246	8,760	1.57E-04	1.57E-04
70073	NON-PERMITTED ICES - GASOLINE	Acetaldehyde	75-07-0	1.0222	0.000117	8,760	1.47E-05	1.47E-05
70073	NON-PERMITTED ICES - GASOLINE	Methyl ethyl ketone	78-93-3	0.0819	0.000009	8,760	1.18E-06	1.18E-06
70073	NON-PERMITTED ICES - GASOLINE	Naphthalene	91-20-3	0.2047	0.000023	8,760	2.94E-06	2.94E-06
70073	NON-PERMITTED ICES - GASOLINE	1,2,4-Trimethylbenzene	95-63-6	4.0875	0.000467	8,760	5.88E-05	5.88E-05
70073	NON-PERMITTED ICES - GASOLINE	Ethyl benzene	100-41-4	4.4553	0.000509	8,760	6.41E-05	6.41E-05
70073	NON-PERMITTED ICES - GASOLINE	Styrene	100-42-5	0.4906	0.000056	8,760	7.06E-06	7.06E-06
70073	NON-PERMITTED ICES - GASOLINE	1,3-Butadiene	106-99-0	2.2485	0.000257	8,760	3.23E-05	3.23E-05
70073	NON-PERMITTED ICES - GASOLINE	Acrolein	107-02-8	0.5725	0.000065	8,760	8.23E-06	8.23E-06
70073	NON-PERMITTED ICES - GASOLINE	Toluene	108-88-3	24.3212	0.002776	8,760	3.50E-04	3.50E-04
70073	NON-PERMITTED ICES - GASOLINE	Hexane	110-54-3	6.5401	0.000747	8,760	9.41E-05	9.41E-05
70073	NON-PERMITTED ICES - GASOLINE	Xylenes (mixed isomers)	1330-20-7	20.3149	0.002319	8,760	2.92E-04	2.92E-04
70073	NON-PERMITTED ICES - GASOLINE	Methyl tert-butyl ether	1634-04-4	8.0113	0.000915	8,760	1.15E-04	1.15E-04
70073	NON-PERMITTED ICES - GASOLINE	Manganese compounds	7439-96-5	0.0229	0.000003	8,760	3.29E-07	3.29E-07
70073	NON-PERMITTED ICES - GASOLINE	Nickel compounds	7440-02-0	0.0229	0.000003	8,760	3.29E-07	3.29E-07
70073	NON-PERMITTED ICES - GASOLINE	Copper compounds	7440-50-8	0.0229	0.000003	8,760	3.29E-07	3.29E-07
70073	NON-PERMITTED ICES - GASOLINE	Chlorine	7782-50-5	3.1576	0.000360	8,760	4.54E-05	4.54E-05
70074	NON-PERMITTED ICES - DIESEL	Diesel exhaust particulates	9901	294.6596	0.033637	8,760	4.24E-03	4.24E-03
70075	BOILER PLANT BACKUP GENERATOR	Diesel exhaust particulates	9901	0.4316	0.035963	12	6.21E-06	4.53E-03
70076	COGEN PLANT BACKUP GENERATOR	Diesel exhaust particulates	9901	3.3604	0.480052	7	4.83E-05	6.05E-02

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70077	ORU BACKUP GENERATOR	Diesel exhaust particulates	9901	0.5913	0.073916	8	8.51E-06	9.31E-03
70078	BACKUP GENER FOR HYDRO AREA	Diesel exhaust particulates	9901	1.9345	0.241818	8	2.78E-05	3.05E-02
70079	TANK 1	Benzene	71-43-2	0.6226	0.000071	8,760	8.96E-06	8.96E-06
70079	TANK 1	Naphthalene	91-20-3	0.0788	0.000009	8,760	1.13E-06	1.13E-06
70079	TANK 1	1,2,4-Trimethylbenzene	95-63-6	0.6434	0.000073	8,760	9.25E-06	9.25E-06
70079	TANK 1	Cumene	98-82-8	0.0303	0.000003	8,760	4.36E-07	4.36E-07
70079	TANK 1	Ethyl benzene	100-41-4	0.3444	0.000039	8,760	4.95E-06	4.95E-06
70079	TANK 1	Toluene	108-88-3	1.4782	0.000169	8,760	2.13E-05	2.13E-05
70079	TANK 1	Hexane	110-54-3	7.9000	0.000902	8,760	1.14E-04	1.14E-04
70079	TANK 1	Cyclohexane	110-82-7	3.1260	0.000357	8,760	4.50E-05	4.50E-05
70079	TANK 1	Propylene	115-07-1	4.4525	0.000508	8,760	6.40E-05	6.40E-05
70079	TANK 1	Xylenes (mixed isomers)	1330-20-7	1.6667	0.000190	8,760	2.40E-05	2.40E-05
70079	TANK 1	Methyl tert-butyl ether	1634-04-4	0.0525	0.000006	8,760	7.55E-07	7.55E-07
70081	TANK 3	Benzene	71-43-2	1.0537	0.000120	8,760	1.52E-05	1.52E-05
70081	TANK 3	Naphthalene	91-20-3	0.0069	0.000001	8,760	9.97E-08	9.97E-08
70081	TANK 3	1,2,4-Trimethylbenzene	95-63-6	0.1960	0.000022	8,760	2.82E-06	2.82E-06
70081	TANK 3	Cumene	98-82-8	0.0179	0.000002	8,760	2.57E-07	2.57E-07
70081	TANK 3	Ethyl benzene	100-41-4	0.3124	0.000036	8,760	4.49E-06	4.49E-06
70081	TANK 3	Toluene	108-88-3	2.0282	0.000232	8,760	2.92E-05	2.92E-05
70081	TANK 3	Hexane	110-54-3	13.8795	0.001584	8,760	2.00E-04	2.00E-04
70081	TANK 3	Cyclohexane	110-82-7	5.3060	0.000606	8,760	7.63E-05	7.63E-05
70081	TANK 3	Propylene	115-07-1	8.3340	0.000951	8,760	1.20E-04	1.20E-04
70081	TANK 3	Xylenes (mixed isomers)	1330-20-7	1.3153	0.000150	8,760	1.89E-05	1.89E-05
70081	TANK 3	Methyl tert-butyl ether	1634-04-4	0.0010	0.000000	8,760	1.43E-08	1.43E-08
70083	TANK 6	Benzene	71-43-2	0.7303	0.000083	8,760	1.05E-05	1.05E-05
70083	TANK 6	Naphthalene	91-20-3	0.1079	0.000012	8,760	1.55E-06	1.55E-06
70083	TANK 6	1,2,4-Trimethylbenzene	95-63-6	0.8633	0.000099	8,760	1.24E-05	1.24E-05
70083	TANK 6	Cumene	98-82-8	0.0396	0.000005	8,760	5.70E-07	5.70E-07
70083	TANK 6	Ethyl benzene	100-41-4	0.4368	0.000050	8,760	6.28E-06	6.28E-06
70083	TANK 6	Toluene	108-88-3	1.7915	0.000205	8,760	2.58E-05	2.58E-05
70083	TANK 6	Hexane	110-54-3	9.2041	0.001051	8,760	1.32E-04	1.32E-04
70083	TANK 6	Cyclohexane	110-82-7	3.6647	0.000418	8,760	5.27E-05	5.27E-05

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70083	TANK 6	Propylene	115-07-1	5.1253	0.000585	8,760	7.37E-05	7.37E-05
70083	TANK 6	Xylenes (mixed isomers)	1330-20-7	2.1381	0.000244	8,760	3.08E-05	3.08E-05
70083	TANK 6	Methyl tert-butyl ether	1634-04-4	0.0722	0.000008	8,760	1.04E-06	1.04E-06
70084	TANK 7	PAHs, total, w/o indiv. comp.	1151	0.0036	0.000000	8,760	5.19E-08	5.19E-08
70084	TANK 7	Benzene	71-43-2	0.8923	0.000102	8,760	1.28E-05	1.28E-05
70084	TANK 7	Ethylene	74-85-1	0.0101	0.000001	8,760	1.46E-07	1.46E-07
70084	TANK 7	Naphthalene	91-20-3	0.3966	0.000045	8,760	5.70E-06	5.70E-06
70084	TANK 7	1,2,4-Trimethylbenzene	95-63-6	0.7097	0.000081	8,760	1.02E-05	1.02E-05
70084	TANK 7	Cumene	98-82-8	0.1545	0.000018	8,760	2.22E-06	2.22E-06
70084	TANK 7	Ethyl benzene	100-41-4	0.3154	0.000036	8,760	4.54E-06	4.54E-06
70084	TANK 7	Styrene	100-42-5	0.0926	0.000011	8,760	1.33E-06	1.33E-06
70084	TANK 7	1,3-Butadiene	106-99-0	0.0101	0.000001	8,760	1.46E-07	1.46E-07
70084	TANK 7	Toluene	108-88-3	0.4581	0.000052	8,760	6.59E-06	6.59E-06
70084	TANK 7	Phenol	108-95-2	0.0009	0.000000	8,760	1.22E-08	1.22E-08
70084	TANK 7	Hexane	110-54-3	0.3491	0.000040	8,760	5.02E-06	5.02E-06
70084	TANK 7	Cyclohexane	110-82-7	0.2266	0.000026	8,760	3.26E-06	3.26E-06
70084	TANK 7	Propylene	115-07-1	0.0101	0.000001	8,760	1.46E-07	1.46E-07
70084	TANK 7	Xylenes (mixed isomers)	1330-20-7	1.1216	0.000128	8,760	1.61E-05	1.61E-05
70084	TANK 7	Methyl tert-butyl ether	1634-04-4	0.0361	0.000004	8,760	5.19E-07	5.19E-07
70084	TANK 7	Hydrogen sulfide	7783-06-4	0.3025	0.000035	8,760	4.35E-06	4.35E-06
70085	TANK 8	Benzene	71-43-2	0.3862	0.000044	8,760	5.55E-06	5.55E-06
70085	TANK 8	Naphthalene	91-20-3	0.0227	0.000003	8,760	3.27E-07	3.27E-07
70085	TANK 8	Ethyl benzene	100-41-4	1.1132	0.000127	8,760	1.60E-05	1.60E-05
70085	TANK 8	Toluene	108-88-3	2.4933	0.000285	8,760	3.59E-05	3.59E-05
70085	TANK 8	Hexane	110-54-3	1.7891	0.000204	8,760	2.57E-05	2.57E-05
70085	TANK 8	Cyclohexane	110-82-7	1.2893	0.000147	8,760	1.85E-05	1.85E-05
70085	TANK 8	Xylenes (mixed isomers)	1330-20-7	4.9469	0.000565	8,760	7.12E-05	7.12E-05
70085	TANK 8	Hydrogen sulfide	7783-06-4	0.0002	0.000000	8,760	2.45E-09	2.45E-09
70086	TANK 9	Benzene	71-43-2	0.3674	0.000042	8,760	5.28E-06	5.28E-06
70086	TANK 9	Naphthalene	91-20-3	0.0216	0.000002	8,760	3.11E-07	3.11E-07
70086	TANK 9	Ethyl benzene	100-41-4	1.0589	0.000121	8,760	1.52E-05	1.52E-05
70086	TANK 9	Toluene	108-88-3	2.3718	0.000271	8,760	3.41E-05	3.41E-05

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70086	TANK 9	Hexane	110-54-3	1.7018	0.000194	8,760	2.45E-05	2.45E-05
70086	TANK 9	Cyclohexane	110-82-7	1.2264	0.000140	8,760	1.76E-05	1.76E-05
70086	TANK 9	Xylenes (mixed isomers)	1330-20-7	4.7057	0.000537	8,760	6.77E-05	6.77E-05
70086	TANK 9	Hydrogen sulfide	7783-06-4	0.0002	0.000000	8,760	2.33E-09	2.33E-09
70087	TANK 10	PAHs, total, w/o indiv. comp.	1151	0.0054	0.000001	8,760	7.80E-08	7.80E-08
70087	TANK 10	Hexane	110-54-3	0.0212	0.000002	8,760	3.04E-07	3.04E-07
70087	TANK 10	Cyclohexane	110-82-7	0.0254	0.000003	8,760	3.65E-07	3.65E-07
70087	TANK 10	Anthracene	120-12-7	0.0007	0.000000	8,760	1.02E-08	1.02E-08
70087	TANK 10	Hydrogen sulfide	7783-06-4	0.0970	0.000011	8,760	1.40E-06	1.40E-06
70088	TANK 25	PAHs, total, w/o indiv. comp.	1151	0.0032	0.000000	8,760	4.62E-08	4.62E-08
70088	TANK 25	Benzene	71-43-2	0.7765	0.000089	8,760	1.12E-05	1.12E-05
70088	TANK 25	Naphthalene	91-20-3	0.1192	0.000014	8,760	1.71E-06	1.71E-06
70088	TANK 25	1,2,4-Trimethylbenzene	95-63-6	0.7334	0.000084	8,760	1.05E-05	1.05E-05
70088	TANK 25	Ethyl benzene	100-41-4	0.3663	0.000042	8,760	5.27E-06	5.27E-06
70088	TANK 25	Toluene	108-88-3	0.7911	0.000090	8,760	1.14E-05	1.14E-05
70088	TANK 25	Phenol	108-95-2	0.0027	0.000000	8,760	3.95E-08	3.95E-08
70088	TANK 25	Anthracene	120-12-7	0.0025	0.000000	8,760	3.54E-08	3.54E-08
70088	TANK 25	Xylenes (mixed isomers)	1330-20-7	1.6332	0.000186	8,760	2.35E-05	2.35E-05
70088	TANK 25	Hydrogen sulfide	7783-06-4	1.9846	0.000227	8,760	2.85E-05	2.85E-05
70089	TANK 26	PAHs, total, w/o indiv. comp.	1151	0.0422	0.000005	8,760	6.07E-07	6.07E-07
70089	TANK 26	Benzene	71-43-2	5.0692	0.000579	8,760	7.29E-05	7.29E-05
70089	TANK 26	Ethylene	74-85-1	0.0274	0.000003	8,760	3.95E-07	3.95E-07
70089	TANK 26	Naphthalene	91-20-3	1.0529	0.000120	8,760	1.51E-05	1.51E-05
70089	TANK 26	1,2,4-Trimethylbenzene	95-63-6	2.4490	0.000280	8,760	3.52E-05	3.52E-05
70089	TANK 26	Cumene	98-82-8	0.3243	0.000037	8,760	4.66E-06	4.66E-06
70089	TANK 26	Ethyl benzene	100-41-4	1.1615	0.000133	8,760	1.67E-05	1.67E-05
70089	TANK 26	Styrene	100-42-5	0.4138	0.000047	8,760	5.95E-06	5.95E-06
70089	TANK 26	1,3-Butadiene	106-99-0	0.0274	0.000003	8,760	3.95E-07	3.95E-07
70089	TANK 26	Toluene	108-88-3	1.8495	0.000211	8,760	2.66E-05	2.66E-05
70089	TANK 26	Phenol	108-95-2	0.0122	0.000001	8,760	1.75E-07	1.75E-07
70089	TANK 26	Hexane	110-54-3	1.9642	0.000224	8,760	2.83E-05	2.83E-05
70089	TANK 26	Cyclohexane	110-82-7	1.2639	0.000144	8,760	1.82E-05	1.82E-05

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70089	TANK 26	Propylene	115-07-1	0.0274	0.000003	8,760	3.95E-07	3.95E-07
70089	TANK 26	Xylenes (mixed isomers)	1330-20-7	4.4927	0.000513	8,760	6.46E-05	6.46E-05
70089	TANK 26	Methyl tert-butyl ether	1634-04-4	0.0844	0.000010	8,760	1.21E-06	1.21E-06
70089	TANK 26	Hydrogen sulfide	7783-06-4	0.0464	0.000005	8,760	6.68E-07	6.68E-07
70090	TANK 27	PAHs, total, w/o indiv. comp.	1151	0.0090	0.000001	8,760	1.29E-07	1.29E-07
70090	TANK 27	Hexane	110-54-3	0.0281	0.000003	8,760	4.04E-07	4.04E-07
70090	TANK 27	Cyclohexane	110-82-7	0.0349	0.000004	8,760	5.02E-07	5.02E-07
70090	TANK 27	Anthracene	120-12-7	0.0012	0.000000	8,760	1.69E-08	1.69E-08
70090	TANK 27	Hydrogen sulfide	7783-06-4	0.1151	0.000013	8,760	1.66E-06	1.66E-06
70091	TANK 61	PAHs, total, w/o indiv. comp.	1151	0.0402	0.000005	8,760	5.79E-07	5.79E-07
70091	TANK 61	Benzene	71-43-2	2.6263	0.000300	8,760	3.78E-05	3.78E-05
70091	TANK 61	Ethylene	74-85-1	0.0231	0.000003	8,760	3.32E-07	3.32E-07
70091	TANK 61	Naphthalene	91-20-3	0.9112	0.000104	8,760	1.31E-05	1.31E-05
70091	TANK 61	1,2,4-Trimethylbenzene	95-63-6	1.7511	0.000200	8,760	2.52E-05	2.52E-05
70091	TANK 61	Cumene	98-82-8	0.2029	0.000023	8,760	2.92E-06	2.92E-06
70091	TANK 61	Ethyl benzene	100-41-4	0.6679	0.000076	8,760	9.61E-06	9.61E-06
70091	TANK 61	Styrene	100-42-5	0.2487	0.000028	8,760	3.58E-06	3.58E-06
70091	TANK 61	1,3-Butadiene	106-99-0	0.0231	0.000003	8,760	3.32E-07	3.32E-07
70091	TANK 61	Toluene	108-88-3	0.9894	0.000113	8,760	1.42E-05	1.42E-05
70091	TANK 61	Phenol	108-95-2	0.0100	0.000001	8,760	1.43E-07	1.43E-07
70091	TANK 61	Hexane	110-54-3	1.0122	0.000116	8,760	1.46E-05	1.46E-05
70091	TANK 61	Cyclohexane	110-82-7	0.6545	0.000075	8,760	9.41E-06	9.41E-06
70091	TANK 61	Propylene	115-07-1	0.0231	0.000003	8,760	3.32E-07	3.32E-07
70091	TANK 61	Xylenes (mixed isomers)	1330-20-7	2.6530	0.000303	8,760	3.82E-05	3.82E-05
70091	TANK 61	Methyl tert-butyl ether	1634-04-4	0.0805	0.000009	8,760	1.16E-06	1.16E-06
70091	TANK 61	Hydrogen sulfide	7783-06-4	0.0238	0.000003	8,760	3.42E-07	3.42E-07
70092	TANK 62	PAHs, total, w/o indiv. comp.	1151	0.0242	0.000003	8,760	3.48E-07	3.48E-07
70092	TANK 62	Benzene	71-43-2	0.4137	0.000047	8,760	5.95E-06	5.95E-06
70092	TANK 62	Ethylene	74-85-1	0.0122	0.000001	8,760	1.76E-07	1.76E-07
70092	TANK 62	Naphthalene	91-20-3	0.4987	0.000057	8,760	7.17E-06	7.17E-06
70092	TANK 62	1,2,4-Trimethylbenzene	95-63-6	0.7444	0.000085	8,760	1.07E-05	1.07E-05
70092	TANK 62	Cumene	98-82-8	0.0659	0.000008	8,760	9.48E-07	9.48E-07

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70092	TANK 62	Ethyl benzene	100-41-4	0.1694	0.000019	8,760	2.44E-06	2.44E-06
70092	TANK 62	Styrene	100-42-5	0.0725	0.000008	8,760	1.04E-06	1.04E-06
70092	TANK 62	1,3-Butadiene	106-99-0	0.0122	0.000001	8,760	1.76E-07	1.76E-07
70092	TANK 62	Toluene	108-88-3	0.1861	0.000021	8,760	2.68E-06	2.68E-06
70092	TANK 62	Phenol	108-95-2	0.0051	0.000001	8,760	7.35E-08	7.35E-08
70092	TANK 62	Hexane	110-54-3	0.1542	0.000018	8,760	2.22E-06	2.22E-06
70092	TANK 62	Cyclohexane	110-82-7	0.1028	0.000012	8,760	1.48E-06	1.48E-06
70092	TANK 62	Propylene	115-07-1	0.0122	0.000001	8,760	1.76E-07	1.76E-07
70092	TANK 62	Xylenes (mixed isomers)	1330-20-7	0.7340	0.000084	8,760	1.06E-05	1.06E-05
70092	TANK 62	Methyl tert-butyl ether	1634-04-4	0.0483	0.000006	8,760	6.95E-07	6.95E-07
70092	TANK 62	Hydrogen sulfide	7783-06-4	0.0035	0.000000	8,760	5.02E-08	5.02E-08
70093	TANK 65	PAHs, total, w/o indiv. comp.	1151	0.0167	0.000002	8,760	2.40E-07	2.40E-07
70093	TANK 65	Benzene	71-43-2	1.0336	0.000118	8,760	1.49E-05	1.49E-05
70093	TANK 65	Naphthalene	91-20-3	0.4379	0.000050	8,760	6.30E-06	6.30E-06
70093	TANK 65	1,2,4-Trimethylbenzene	95-63-6	1.6649	0.000190	8,760	2.39E-05	2.39E-05
70093	TANK 65	Ethyl benzene	100-41-4	0.5657	0.000065	8,760	8.14E-06	8.14E-06
70093	TANK 65	Toluene	108-88-3	1.1001	0.000126	8,760	1.58E-05	1.58E-05
70093	TANK 65	Phenol	108-95-2	0.0085	0.000001	8,760	1.23E-07	1.23E-07
70093	TANK 65	Anthracene	120-12-7	0.0128	0.000001	8,760	1.84E-07	1.84E-07
70093	TANK 65	Xylenes (mixed isomers)	1330-20-7	2.6276	0.000300	8,760	3.78E-05	3.78E-05
70093	TANK 65	Hydrogen sulfide	7783-06-4	2.5921	0.000296	8,760	3.73E-05	3.73E-05
70094	TANK 66	Benzene	71-43-2	1.2254	0.000140	8,760	1.76E-05	1.76E-05
70094	TANK 66	Naphthalene	91-20-3	0.1270	0.000014	8,760	1.83E-06	1.83E-06
70094	TANK 66	1,2,4-Trimethylbenzene	95-63-6	1.0674	0.000122	8,760	1.54E-05	1.54E-05
70094	TANK 66	Cumene	98-82-8	0.0522	0.000006	8,760	7.51E-07	7.51E-07
70094	TANK 66	Ethyl benzene	100-41-4	0.6175	0.000070	8,760	8.88E-06	8.88E-06
70094	TANK 66	Toluene	108-88-3	2.8040	0.000320	8,760	4.03E-05	4.03E-05
70094	TANK 66	Hexane	110-54-3	15.6627	0.001788	8,760	2.25E-04	2.25E-04
70094	TANK 66	Cyclohexane	110-82-7	6.1562	0.000703	8,760	8.85E-05	8.85E-05
70094	TANK 66	Propylene	115-07-1	8.9417	0.001021	8,760	1.29E-04	1.29E-04
70094	TANK 66	Xylenes (mixed isomers)	1330-20-7	2.9449	0.000336	8,760	4.24E-05	4.24E-05
70094	TANK 66	Methyl tert-butyl ether	1634-04-4	0.0837	0.000010	8,760	1.20E-06	1.20E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70095	TANK 67	Benzene	71-43-2	1.2204	0.000139	8,760	1.76E-05	1.76E-05
70095	TANK 67	Naphthalene	91-20-3	0.1080	0.000012	8,760	1.55E-06	1.55E-06
70095	TANK 67	1,2,4-Trimethylbenzene	95-63-6	0.9326	0.000106	8,760	1.34E-05	1.34E-05
70095	TANK 67	Cumene	98-82-8	0.0471	0.000005	8,760	6.78E-07	6.78E-07
70095	TANK 67	Ethyl benzene	100-41-4	0.5755	0.000066	8,760	8.28E-06	8.28E-06
70095	TANK 67	Toluene	108-88-3	2.7233	0.000311	8,760	3.92E-05	3.92E-05
70095	TANK 67	Hexane	110-54-3	15.6723	0.001789	8,760	2.25E-04	2.25E-04
70095	TANK 67	Cyclohexane	110-82-7	6.1330	0.000700	8,760	8.82E-05	8.82E-05
70095	TANK 67	Propylene	115-07-1	9.0213	0.001030	8,760	1.30E-04	1.30E-04
70095	TANK 67	Xylenes (mixed isomers)	1330-20-7	2.7129	0.000310	8,760	3.90E-05	3.90E-05
70095	TANK 67	Methyl tert-butyl ether	1634-04-4	0.0705	0.000008	8,760	1.01E-06	1.01E-06
70096	TANK 68	PAHs, total, w/o indiv. comp.	1151	0.0005	0.000000	8,760	6.84E-09	6.84E-09
70096	TANK 68	Benzene	71-43-2	0.0878	0.000010	8,760	1.26E-06	1.26E-06
70096	TANK 68	Naphthalene	91-20-3	0.0160	0.000002	8,760	2.30E-07	2.30E-07
70096	TANK 68	1,2,4-Trimethylbenzene	95-63-6	0.0892	0.000010	8,760	1.28E-06	1.28E-06
70096	TANK 68	Ethyl benzene	100-41-4	0.0421	0.000005	8,760	6.06E-07	6.06E-07
70096	TANK 68	Toluene	108-88-3	0.0899	0.000010	8,760	1.29E-06	1.29E-06
70096	TANK 68	Phenol	108-95-2	0.0004	0.000000	8,760	5.10E-09	5.10E-09
70096	TANK 68	Anthracene	120-12-7	0.0004	0.000000	8,760	5.25E-09	5.25E-09
70096	TANK 68	Xylenes (mixed isomers)	1330-20-7	0.1889	0.000022	8,760	2.72E-06	2.72E-06
70096	TANK 68	Hydrogen sulfide	7783-06-4	0.2241	0.000026	8,760	3.22E-06	3.22E-06
70097	TANK 71	PAHs, total, w/o indiv. comp.	1151	0.0029	0.000000	8,760	4.15E-08	4.15E-08
70097	TANK 71	Hexane	110-54-3	0.0181	0.000002	8,760	2.61E-07	2.61E-07
70097	TANK 71	Cyclohexane	110-82-7	0.0205	0.000002	8,760	2.95E-07	2.95E-07
70097	TANK 71	Anthracene	120-12-7	0.0004	0.000000	8,760	5.43E-09	5.43E-09
70097	TANK 71	Hydrogen sulfide	7783-06-4	0.0970	0.000011	8,760	1.40E-06	1.40E-06
70098	TANK 72	PAHs, total, w/o indiv. comp.	1151	0.0022	0.000000	8,760	3.16E-08	3.16E-08
70098	TANK 72	Hexane	110-54-3	0.0173	0.000002	8,760	2.49E-07	2.49E-07
70098	TANK 72	Cyclohexane	110-82-7	0.0192	0.000002	8,760	2.76E-07	2.76E-07
70098	TANK 72	Anthracene	120-12-7	0.0003	0.000000	8,760	4.14E-09	4.14E-09
70098	TANK 72	Hydrogen sulfide	7783-06-4	0.0969	0.000011	8,760	1.39E-06	1.39E-06
70099	TANK 78	PAHs, total, w/o indiv. comp.	1151	0.0003	0.000000	8,760	4.90E-09	4.90E-09

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70099	TANK 78	Benzene	71-43-2	0.0007	0.000000	8,760	9.80E-09	9.80E-09
70099	TANK 78	Ethylene	74-85-1	0.0002	0.000000	8,760	2.36E-09	2.36E-09
70099	TANK 78	Naphthalene	91-20-3	0.0068	0.000001	8,760	9.80E-08	9.80E-08
70099	TANK 78	1,2,4-Trimethylbenzene	95-63-6	0.0143	0.000002	8,760	2.06E-07	2.06E-07
70099	TANK 78	Cumene	98-82-8	0.0007	0.000000	8,760	9.80E-09	9.80E-09
70099	TANK 78	Ethyl benzene	100-41-4	0.0080	0.000001	8,760	1.16E-07	1.16E-07
70099	TANK 78	Styrene	100-42-5	0.0007	0.000000	8,760	9.80E-09	9.80E-09
70099	TANK 78	1,3-Butadiene	106-99-0	0.0002	0.000000	8,760	2.36E-09	2.36E-09
70099	TANK 78	Toluene	108-88-3	0.0046	0.000001	8,760	6.57E-08	6.57E-08
70099	TANK 78	Phenol	108-95-2	0.0001	0.000000	8,760	9.80E-10	9.80E-10
70099	TANK 78	Hexane	110-54-3	0.0002	0.000000	8,760	2.36E-09	2.36E-09
70099	TANK 78	Cyclohexane	110-82-7	0.0002	0.000000	8,760	2.36E-09	2.36E-09
70099	TANK 78	Propylene	115-07-1	0.0002	0.000000	8,760	2.36E-09	2.36E-09
70099	TANK 78	Xylenes (mixed isomers)	1330-20-7	0.0365	0.000004	8,760	5.25E-07	5.25E-07
70099	TANK 78	Methyl tert-butyl ether	1634-04-4	0.0007	0.000000	8,760	9.80E-09	9.80E-09
70100	TANK 79	Naphthalene	91-20-3	0.0098	0.000001	8,760	1.41E-07	1.41E-07
70100	TANK 79	Ethyl benzene	100-41-4	0.7573	0.000086	8,760	1.09E-05	1.09E-05
70100	TANK 79	Toluene	108-88-3	0.1878	0.000021	8,760	2.70E-06	2.70E-06
70100	TANK 79	Xylenes (mixed isomers)	1330-20-7	3.2158	0.000367	8,760	4.63E-05	4.63E-05
70101	TANK 91	PAHs, total, w/o indiv. comp.	1151	0.0006	0.000000	8,760	8.62E-09	8.62E-09
70101	TANK 91	Benzene	71-43-2	0.3677	0.000042	8,760	5.29E-06	5.29E-06
70101	TANK 91	Ethylene	74-85-1	28.5821	0.003263	8,760	4.11E-04	4.11E-04
70101	TANK 91	Naphthalene	91-20-3	0.0135	0.000002	8,760	1.94E-07	1.94E-07
70101	TANK 91	1,2,4-Trimethylbenzene	95-63-6	0.0019	0.000000	8,760	2.73E-08	2.73E-08
70101	TANK 91	Cumene	98-82-8	0.0029	0.000000	8,760	4.19E-08	4.19E-08
70101	TANK 91	Ethyl benzene	100-41-4	0.0047	0.000001	8,760	6.82E-08	6.82E-08
70101	TANK 91	Styrene	100-42-5	0.0035	0.000000	8,760	5.11E-08	5.11E-08
70101	TANK 91	1,3-Butadiene	106-99-0	1.3025	0.000149	8,760	1.87E-05	1.87E-05
70101	TANK 91	Toluene	108-88-3	0.0116	0.000001	8,760	1.67E-07	1.67E-07
70101	TANK 91	Phenol	108-95-2	0.0001	0.000000	8,760	2.11E-09	2.11E-09
70101	TANK 91	Hexane	110-54-3	29.5509	0.003373	8,760	4.25E-04	4.25E-04
70101	TANK 91	Cyclohexane	110-82-7	32.5665	0.003718	8,760	4.68E-04	4.68E-04

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70101	TANK 91	Propylene	115-07-1	5.2316	0.000597	8,760	7.52E-05	7.52E-05
70101	TANK 91	Xylenes (mixed isomers)	1330-20-7	0.0079	0.000001	8,760	1.13E-07	1.13E-07
70101	TANK 91	Methyl tert-butyl ether	1634-04-4	0.0012	0.000000	8,760	1.72E-08	1.72E-08
70102	TANK 92	Benzene	71-43-2	9.7613	0.001114	8,760	1.40E-04	1.40E-04
70102	TANK 92	Naphthalene	91-20-3	0.2425	0.000028	8,760	3.49E-06	3.49E-06
70102	TANK 92	1,2,4-Trimethylbenzene	95-63-6	3.7922	0.000433	8,760	5.45E-05	5.45E-05
70102	TANK 92	Cumene	98-82-8	0.2454	0.000028	8,760	3.53E-06	3.53E-06
70102	TANK 92	Ethyl benzene	100-41-4	7.1084	0.000811	8,760	1.02E-04	1.02E-04
70102	TANK 92	Toluene	108-88-3	77.9848	0.008902	8,760	1.12E-03	1.12E-03
70102	TANK 92	Hexane	110-54-3	32.2735	0.003684	8,760	4.64E-04	4.64E-04
70102	TANK 92	Xylenes (mixed isomers)	1330-20-7	29.2107	0.003335	8,760	4.20E-04	4.20E-04
70103	TANK 93	Benzene	71-43-2	3.5613	0.000407	8,760	5.12E-05	5.12E-05
70103	TANK 93	Naphthalene	91-20-3	0.4446	0.000051	8,760	6.40E-06	6.40E-06
70103	TANK 93	Ethyl benzene	100-41-4	1.8579	0.000212	8,760	2.67E-05	2.67E-05
70103	TANK 93	Toluene	108-88-3	12.0661	0.001377	8,760	1.74E-04	1.74E-04
70103	TANK 93	Hexane	110-54-3	1.9298	0.000220	8,760	2.78E-05	2.78E-05
70103	TANK 93	Cyclohexane	110-82-7	0.8069	0.000092	8,760	1.16E-05	1.16E-05
70103	TANK 93	Xylenes (mixed isomers)	1330-20-7	8.4361	0.000963	8,760	1.21E-04	1.21E-04
70105	TANK 110	Benzene	71-43-2	2.5610	0.000292	8,760	3.68E-05	3.68E-05
70105	TANK 110	Naphthalene	91-20-3	0.0043	0.000000	8,760	6.20E-08	6.20E-08
70105	TANK 110	Ethyl benzene	100-41-4	0.8760	0.000100	8,760	1.26E-05	1.26E-05
70105	TANK 110	Toluene	108-88-3	4.3886	0.000501	8,760	6.31E-05	6.31E-05
70105	TANK 110	Hexane	110-54-3	31.1993	0.003562	8,760	4.49E-04	4.49E-04
70105	TANK 110	Cyclohexane	110-82-7	7.9463	0.000907	8,760	1.14E-04	1.14E-04
70105	TANK 110	Xylenes (mixed isomers)	1330-20-7	3.6050	0.000412	8,760	5.19E-05	5.19E-05
70107	TANK 124	PAHs, total, w/o indiv. comp.	1151	0.0015	0.000000	8,760	2.15E-08	2.15E-08
70107	TANK 124	Benzene	71-43-2	1.0126	0.000116	8,760	1.46E-05	1.46E-05
70107	TANK 124	Naphthalene	91-20-3	0.0949	0.000011	8,760	1.36E-06	1.36E-06
70107	TANK 124	1,2,4-Trimethylbenzene	95-63-6	0.8071	0.000092	8,760	1.16E-05	1.16E-05
70107	TANK 124	Ethyl benzene	100-41-4	0.4608	0.000053	8,760	6.63E-06	6.63E-06
70107	TANK 124	Toluene	108-88-3	1.0215	0.000117	8,760	1.47E-05	1.47E-05
70107	TANK 124	Phenol	108-95-2	0.0025	0.000000	8,760	3.62E-08	3.62E-08

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70107	TANK 124	Anthracene	120-12-7	0.0011	0.000000	8,760	1.65E-08	1.65E-08
70107	TANK 124	Xylenes (mixed isomers)	1330-20-7	2.0314	0.000232	8,760	2.92E-05	2.92E-05
70107	TANK 124	Hydrogen sulfide	7783-06-4	2.5987	0.000297	8,760	3.74E-05	3.74E-05
70108	TANK 146	Benzene	71-43-2	5.0006	0.000571	8,760	7.19E-05	7.19E-05
70108	TANK 146	Naphthalene	91-20-3	0.0325	0.000004	8,760	4.67E-07	4.67E-07
70108	TANK 146	1,2,4-Trimethylbenzene	95-63-6	0.8174	0.000093	8,760	1.18E-05	1.18E-05
70108	TANK 146	Ethyl benzene	100-41-4	1.2816	0.000146	8,760	1.84E-05	1.84E-05
70108	TANK 146	1,3-Butadiene	106-99-0	1.8249	0.000208	8,760	2.62E-05	2.62E-05
70108	TANK 146	Toluene	108-88-3	12.5568	0.001433	8,760	1.81E-04	1.81E-04
70108	TANK 146	Hexane	110-54-3	15.6307	0.001784	8,760	2.25E-04	2.25E-04
70108	TANK 146	Cyclohexane	110-82-7	5.9598	0.000680	8,760	8.57E-05	8.57E-05
70108	TANK 146	Xylenes (mixed isomers)	1330-20-7	5.9388	0.000678	8,760	8.54E-05	8.54E-05
70109	TANK 147	1,2,4-Trimethylbenzene	95-63-6	1.8357	0.000210	8,760	2.64E-05	2.64E-05
70109	TANK 147	Cumene	98-82-8	0.2027	0.000023	8,760	2.92E-06	2.92E-06
70109	TANK 147	Ethyl benzene	100-41-4	2.3112	0.000264	8,760	3.32E-05	3.32E-05
70109	TANK 147	Styrene	100-42-5	0.2251	0.000026	8,760	3.24E-06	3.24E-06
70109	TANK 147	Toluene	108-88-3	8.6035	0.000982	8,760	1.24E-04	1.24E-04
70109	TANK 147	Hexane	110-54-3	0.0614	0.000007	8,760	8.82E-07	8.82E-07
70109	TANK 147	Cyclohexane	110-82-7	0.2003	0.000023	8,760	2.88E-06	2.88E-06
70109	TANK 147	Xylenes (mixed isomers)	1330-20-7	8.5218	0.000973	8,760	1.23E-04	1.23E-04
70110	TANK 148	Benzene	71-43-2	10.1782	0.001162	8,760	1.46E-04	1.46E-04
70110	TANK 148	Naphthalene	91-20-3	0.8480	0.000097	8,760	1.22E-05	1.22E-05
70110	TANK 148	1,2,4-Trimethylbenzene	95-63-6	8.3689	0.000955	8,760	1.20E-04	1.20E-04
70110	TANK 148	Cumene	98-82-8	0.3985	0.000045	8,760	5.73E-06	5.73E-06
70110	TANK 148	Ethyl benzene	100-41-4	9.4878	0.001083	8,760	1.36E-04	1.36E-04
70110	TANK 148	Toluene	108-88-3	87.8141	0.010024	8,760	1.26E-03	1.26E-03
70110	TANK 148	Hexane	110-54-3	33.2185	0.003792	8,760	4.78E-04	4.78E-04
70110	TANK 148	Xylenes (mixed isomers)	1330-20-7	41.4703	0.004734	8,760	5.96E-04	5.96E-04
70111	TANK 149	Benzene	71-43-2	4.3993	0.000502	8,760	6.33E-05	6.33E-05
70111	TANK 149	Naphthalene	91-20-3	0.0574	0.000007	8,760	8.26E-07	8.26E-07
70111	TANK 149	1,2,4-Trimethylbenzene	95-63-6	1.2867	0.000147	8,760	1.85E-05	1.85E-05
70111	TANK 149	Ethyl benzene	100-41-4	1.5240	0.000174	8,760	2.19E-05	2.19E-05

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70111	TANK 149	1,3-Butadiene	106-99-0	1.5124	0.000173	8,760	2.18E-05	2.18E-05
70111	TANK 149	Toluene	108-88-3	12.4083	0.001416	8,760	1.78E-04	1.78E-04
70111	TANK 149	Hexane	110-54-3	13.4459	0.001535	8,760	1.93E-04	1.93E-04
70111	TANK 149	Cyclohexane	110-82-7	5.2341	0.000598	8,760	7.53E-05	7.53E-05
70111	TANK 149	Xylenes (mixed isomers)	1330-20-7	7.4298	0.000848	8,760	1.07E-04	1.07E-04
70112	TANK 160	Naphthalene	91-20-3	0.0275	0.000003	8,760	3.96E-07	3.96E-07
70112	TANK 160	Ethyl benzene	100-41-4	3.0482	0.000348	8,760	4.38E-05	4.38E-05
70112	TANK 160	Toluene	108-88-3	0.8077	0.000092	8,760	1.16E-05	1.16E-05
70112	TANK 160	Xylenes (mixed isomers)	1330-20-7	12.6355	0.001442	8,760	1.82E-04	1.82E-04
70113	TANK 168	Benzene	71-43-2	2.0496	0.000234	8,760	2.95E-05	2.95E-05
70113	TANK 168	Naphthalene	91-20-3	0.0014	0.000000	8,760	2.04E-08	2.04E-08
70113	TANK 168	Ethyl benzene	100-41-4	0.4098	0.000047	8,760	5.89E-06	5.89E-06
70113	TANK 168	Toluene	108-88-3	2.7158	0.000310	8,760	3.91E-05	3.91E-05
70113	TANK 168	Hexane	110-54-3	26.5498	0.003031	8,760	3.82E-04	3.82E-04
70113	TANK 168	Cyclohexane	110-82-7	6.3884	0.000729	8,760	9.19E-05	9.19E-05
70113	TANK 168	Xylenes (mixed isomers)	1330-20-7	1.5892	0.000181	8,760	2.29E-05	2.29E-05
70114	TANK 169	Benzene	71-43-2	0.0625	0.000007	8,760	8.99E-07	8.99E-07
70114	TANK 169	1,2,4-Trimethylbenzene	95-63-6	0.0154	0.000002	8,760	2.21E-07	2.21E-07
70114	TANK 169	Ethyl benzene	100-41-4	0.0196	0.000002	8,760	2.82E-07	2.82E-07
70114	TANK 169	Toluene	108-88-3	0.2108	0.000024	8,760	3.03E-06	3.03E-06
70114	TANK 169	Hexane	110-54-3	0.3933	0.000045	8,760	5.66E-06	5.66E-06
70114	TANK 169	Cyclohexane	110-82-7	0.0643	0.000007	8,760	9.25E-07	9.25E-07
70114	TANK 169	Xylenes (mixed isomers)	1330-20-7	0.1016	0.000012	8,760	1.46E-06	1.46E-06
70115	TANK 170	Benzene	71-43-2	3.3631	0.000384	8,760	4.84E-05	4.84E-05
70115	TANK 170	Naphthalene	91-20-3	0.0210	0.000002	8,760	3.02E-07	3.02E-07
70115	TANK 170	1,2,4-Trimethylbenzene	95-63-6	0.5277	0.000060	8,760	7.59E-06	7.59E-06
70115	TANK 170	Ethyl benzene	100-41-4	0.8502	0.000097	8,760	1.22E-05	1.22E-05
70115	TANK 170	1,3-Butadiene	106-99-0	1.1823	0.000135	8,760	1.70E-05	1.70E-05
70115	TANK 170	Toluene	108-88-3	8.2838	0.000946	8,760	1.19E-04	1.19E-04
70115	TANK 170	Hexane	110-54-3	11.7528	0.001342	8,760	1.69E-04	1.69E-04
70115	TANK 170	Cyclohexane	110-82-7	4.2476	0.000485	8,760	6.11E-05	6.11E-05
70115	TANK 170	Xylenes (mixed isomers)	1330-20-7	3.9203	0.000448	8,760	5.64E-05	5.64E-05

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70116	TANK 171	PAHs, total, w/o indiv. comp.	1151	0.0028	0.000000	8,760	4.01E-08	4.01E-08
70116	TANK 171	Benzene	71-43-2	4.9499	0.000565	8,760	7.12E-05	7.12E-05
70116	TANK 171	Ethylene	74-85-1	32.1977	0.003676	8,760	4.63E-04	4.63E-04
70116	TANK 171	Naphthalene	91-20-3	0.2877	0.000033	8,760	4.14E-06	4.14E-06
70116	TANK 171	1,2,4-Trimethylbenzene	95-63-6	0.4618	0.000053	8,760	6.64E-06	6.64E-06
70116	TANK 171	Cumene	98-82-8	0.0381	0.000004	8,760	5.48E-07	5.48E-07
70116	TANK 171	Ethyl benzene	100-41-4	0.7158	0.000082	8,760	1.03E-05	1.03E-05
70116	TANK 171	Styrene	100-42-5	0.0419	0.000005	8,760	6.03E-07	6.03E-07
70116	TANK 171	1,3-Butadiene	106-99-0	1.4729	0.000168	8,760	2.12E-05	2.12E-05
70116	TANK 171	Toluene	108-88-3	6.6385	0.000758	8,760	9.55E-05	9.55E-05
70116	TANK 171	Phenol	108-95-2	0.0006	0.000000	8,760	8.48E-09	8.48E-09
70116	TANK 171	Hexane	110-54-3	282.7153	0.032273	8,760	4.07E-03	4.07E-03
70116	TANK 171	Cyclohexane	110-82-7	1.6565	0.000189	8,760	2.38E-05	2.38E-05
70116	TANK 171	Propylene	115-07-1	5.8982	0.000673	8,760	8.48E-05	8.48E-05
70116	TANK 171	Xylenes (mixed isomers)	1330-20-7	3.3254	0.000380	8,760	4.78E-05	4.78E-05
70116	TANK 171	Methyl tert-butyl ether	1634-04-4	0.0279	0.000003	8,760	4.01E-07	4.01E-07
70117	TANK 172	Benzene	71-43-2	11.6117	0.001326	8,760	1.67E-04	1.67E-04
70117	TANK 172	Naphthalene	91-20-3	0.9326	0.000106	8,760	1.34E-05	1.34E-05
70117	TANK 172	1,2,4-Trimethylbenzene	95-63-6	9.2896	0.001060	8,760	1.34E-04	1.34E-04
70117	TANK 172	Cumene	98-82-8	0.4463	0.000051	8,760	6.42E-06	6.42E-06
70117	TANK 172	Ethyl benzene	100-41-4	10.7028	0.001222	8,760	1.54E-04	1.54E-04
70117	TANK 172	Toluene	108-88-3	99.8027	0.011393	8,760	1.44E-03	1.44E-03
70117	TANK 172	Hexane	110-54-3	37.9225	0.004329	8,760	5.45E-04	5.45E-04
70117	TANK 172	Xylenes (mixed isomers)	1330-20-7	46.6678	0.005327	8,760	6.71E-04	6.71E-04
70118	TANK 198	Benzene	71-43-2	0.8649	0.000099	8,760	1.24E-05	1.24E-05
70118	TANK 198	Naphthalene	91-20-3	0.0062	0.000001	8,760	8.91E-08	8.91E-08
70118	TANK 198	1,2,4-Trimethylbenzene	95-63-6	0.1644	0.000019	8,760	2.36E-06	2.36E-06
70118	TANK 198	Cumene	98-82-8	0.0148	0.000002	8,760	2.13E-07	2.13E-07
70118	TANK 198	Ethyl benzene	100-41-4	0.2575	0.000029	8,760	3.70E-06	3.70E-06
70118	TANK 198	Toluene	108-88-3	1.6667	0.000190	8,760	2.40E-05	2.40E-05
70118	TANK 198	Hexane	110-54-3	11.3903	0.001300	8,760	1.64E-04	1.64E-04
70118	TANK 198	Cyclohexane	110-82-7	4.3551	0.000497	8,760	6.26E-05	6.26E-05

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70118	TANK 198	Propylene	115-07-1	6.8374	0.000781	8,760	9.83E-05	9.83E-05
70118	TANK 198	Xylenes (mixed isomers)	1330-20-7	1.0856	0.000124	8,760	1.56E-05	1.56E-05
70118	TANK 198	Methyl tert-butyl ether	1634-04-4	0.0012	0.000000	8,760	1.67E-08	1.67E-08
70119	TANK 199	Benzene	71-43-2	0.8640	0.000099	8,760	1.24E-05	1.24E-05
70119	TANK 199	Naphthalene	91-20-3	0.0051	0.000001	8,760	7.39E-08	7.39E-08
70119	TANK 199	1,2,4-Trimethylbenzene	95-63-6	0.1568	0.000018	8,760	2.26E-06	2.26E-06
70119	TANK 199	Cumene	98-82-8	0.0145	0.000002	8,760	2.09E-07	2.09E-07
70119	TANK 199	Ethyl benzene	100-41-4	0.2550	0.000029	8,760	3.67E-06	3.67E-06
70119	TANK 199	Toluene	108-88-3	1.6611	0.000190	8,760	2.39E-05	2.39E-05
70119	TANK 199	Hexane	110-54-3	11.3834	0.001299	8,760	1.64E-04	1.64E-04
70119	TANK 199	Cyclohexane	110-82-7	4.3510	0.000497	8,760	6.26E-05	6.26E-05
70119	TANK 199	Propylene	115-07-1	6.8374	0.000781	8,760	9.83E-05	9.83E-05
70119	TANK 199	Xylenes (mixed isomers)	1330-20-7	1.0720	0.000122	8,760	1.54E-05	1.54E-05
70119	TANK 199	Methyl tert-butyl ether	1634-04-4	0.0004	0.000000	8,760	6.26E-09	6.26E-09
70121	TANK 205	PAHs, total, w/o indiv. comp.	1151	0.0070	0.000001	8,760	1.01E-07	1.01E-07
70121	TANK 205	Benzene	71-43-2	1.0212	0.000117	8,760	1.47E-05	1.47E-05
70121	TANK 205	Naphthalene	91-20-3	0.2196	0.000025	8,760	3.16E-06	3.16E-06
70121	TANK 205	1,2,4-Trimethylbenzene	95-63-6	1.1195	0.000128	8,760	1.61E-05	1.61E-05
70121	TANK 205	Ethyl benzene	100-41-4	0.4993	0.000057	8,760	7.18E-06	7.18E-06
70121	TANK 205	Toluene	108-88-3	1.0510	0.000120	8,760	1.51E-05	1.51E-05
70121	TANK 205	Phenol	108-95-2	0.0047	0.000001	8,760	6.77E-08	6.77E-08
70121	TANK 205	Anthracene	120-12-7	0.0054	0.000001	8,760	7.75E-08	7.75E-08
70121	TANK 205	Xylenes (mixed isomers)	1330-20-7	2.2499	0.000257	8,760	3.24E-05	3.24E-05
70121	TANK 205	Hydrogen sulfide	7783-06-4	2.5988	0.000297	8,760	3.74E-05	3.74E-05
70122	TANK 206	PAHs, total, w/o indiv. comp.	1151	0.0009	0.000000	8,760	1.26E-08	1.26E-08
70122	TANK 206	Benzene	71-43-2	0.5757	0.000066	8,760	8.28E-06	8.28E-06
70122	TANK 206	Naphthalene	91-20-3	0.0216	0.000002	8,760	3.10E-07	3.10E-07
70122	TANK 206	1,2,4-Trimethylbenzene	95-63-6	0.0658	0.000008	8,760	9.47E-07	9.47E-07
70122	TANK 206	Ethyl benzene	100-41-4	0.1328	0.000015	8,760	1.91E-06	1.91E-06
70122	TANK 206	Toluene	108-88-3	0.7753	0.000089	8,760	1.12E-05	1.12E-05
70122	TANK 206	Phenol	108-95-2	0.0004	0.000000	8,760	5.60E-09	5.60E-09
70122	TANK 206	Hexane	110-54-3	7.1106	0.000812	8,760	1.02E-04	1.02E-04

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70122	TANK 206	Cyclohexane	110-82-7	1.7184	0.000196	8,760	2.47E-05	2.47E-05
70122	TANK 206	Anthracene	120-12-7	0.0007	0.000000	8,760	9.66E-09	9.66E-09
70122	TANK 206	Xylenes (mixed isomers)	1330-20-7	0.5344	0.000061	8,760	7.69E-06	7.69E-06
70122	TANK 206	Hydrogen sulfide	7783-06-4	0.0588	0.000007	8,760	8.46E-07	8.46E-07
70124	TANK 211	PAHs, total, w/o indiv. comp.	1151	0.0106	0.000001	8,760	1.52E-07	1.52E-07
70124	TANK 211	Hexane	110-54-3	0.0301	0.000003	8,760	4.33E-07	4.33E-07
70124	TANK 211	Cyclohexane	110-82-7	0.0381	0.000004	8,760	5.48E-07	5.48E-07
70124	TANK 211	Anthracene	120-12-7	0.0014	0.000000	8,760	2.00E-08	2.00E-08
70124	TANK 211	Hydrogen sulfide	7783-06-4	0.1156	0.000013	8,760	1.66E-06	1.66E-06
70125	TANK 277	Benzene	71-43-2	3.8120	0.000435	8,760	5.48E-05	5.48E-05
70125	TANK 277	Naphthalene	91-20-3	0.0477	0.000005	8,760	6.86E-07	6.86E-07
70125	TANK 277	1,2,4-Trimethylbenzene	95-63-6	1.0752	0.000123	8,760	1.55E-05	1.55E-05
70125	TANK 277	Ethyl benzene	100-41-4	1.2928	0.000148	8,760	1.86E-05	1.86E-05
70125	TANK 277	1,3-Butadiene	106-99-0	1.3170	0.000150	8,760	1.89E-05	1.89E-05
70125	TANK 277	Toluene	108-88-3	10.6565	0.001216	8,760	1.53E-04	1.53E-04
70125	TANK 277	Hexane	110-54-3	11.6722	0.001332	8,760	1.68E-04	1.68E-04
70125	TANK 277	Cyclohexane	110-82-7	4.5360	0.000518	8,760	6.52E-05	6.52E-05
70125	TANK 277	Xylenes (mixed isomers)	1330-20-7	6.2835	0.000717	8,760	9.04E-05	9.04E-05
70126	TANK 278	PAHs, total, w/o indiv. comp.	1151	0.0059	0.000001	8,760	8.46E-08	8.46E-08
70126	TANK 278	Benzene	71-43-2	6.8129	0.000778	8,760	9.80E-05	9.80E-05
70126	TANK 278	Ethylene	74-85-1	0.0242	0.000003	8,760	3.48E-07	3.48E-07
70126	TANK 278	Naphthalene	91-20-3	0.8707	0.000099	8,760	1.25E-05	1.25E-05
70126	TANK 278	1,2,4-Trimethylbenzene	95-63-6	2.5732	0.000294	8,760	3.70E-05	3.70E-05
70126	TANK 278	Cumene	98-82-8	0.7675	0.000088	8,760	1.10E-05	1.10E-05
70126	TANK 278	Ethyl benzene	100-41-4	1.9012	0.000217	8,760	2.73E-05	2.73E-05
70126	TANK 278	Styrene	100-42-5	0.5050	0.000058	8,760	7.26E-06	7.26E-06
70126	TANK 278	1,3-Butadiene	106-99-0	0.0242	0.000003	8,760	3.48E-07	3.48E-07
70126	TANK 278	Toluene	108-88-3	3.2522	0.000371	8,760	4.68E-05	4.68E-05
70126	TANK 278	Phenol	108-95-2	0.0022	0.000000	8,760	3.15E-08	3.15E-08
70126	TANK 278	Hexane	110-54-3	2.6982	0.000308	8,760	3.88E-05	3.88E-05
70126	TANK 278	Cyclohexane	110-82-7	1.7314	0.000198	8,760	2.49E-05	2.49E-05
70126	TANK 278	Propylene	115-07-1	0.0242	0.000003	8,760	3.48E-07	3.48E-07

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70126	TANK 278	Xylenes (mixed isomers)	1330-20-7	6.3636	0.000726	8,760	9.15E-05	9.15E-05
70126	TANK 278	Methyl tert-butyl ether	1634-04-4	0.0588	0.000007	8,760	8.46E-07	8.46E-07
70126	TANK 278	Hydrogen sulfide	7783-06-4	2.3859	0.000272	8,760	3.43E-05	3.43E-05
70127	TANK 292	Benzene	71-43-2	3.2777	0.000374	8,760	4.71E-05	4.71E-05
70127	TANK 292	Naphthalene	91-20-3	0.0373	0.000004	8,760	5.36E-07	5.36E-07
70127	TANK 292	1,2,4-Trimethylbenzene	95-63-6	0.8501	0.000097	8,760	1.22E-05	1.22E-05
70127	TANK 292	Ethyl benzene	100-41-4	1.0596	0.000121	8,760	1.52E-05	1.52E-05
70127	TANK 292	1,3-Butadiene	106-99-0	1.1446	0.000131	8,760	1.65E-05	1.65E-05
70127	TANK 292	Toluene	108-88-3	8.9844	0.001026	8,760	1.29E-04	1.29E-04
70127	TANK 292	Hexane	110-54-3	10.0762	0.001150	8,760	1.45E-04	1.45E-04
70127	TANK 292	Cyclohexane	110-82-7	3.9014	0.000445	8,760	5.61E-05	5.61E-05
70127	TANK 292	Xylenes (mixed isomers)	1330-20-7	5.1138	0.000584	8,760	7.36E-05	7.36E-05
70128	TANK 326	PAHs, total, w/o indiv. comp.	1151	0.0110	0.000001	8,760	1.59E-07	1.59E-07
70128	TANK 326	Hexane	110-54-3	0.0306	0.000003	8,760	4.41E-07	4.41E-07
70128	TANK 326	Cyclohexane	110-82-7	0.0389	0.000004	8,760	5.60E-07	5.60E-07
70128	TANK 326	Anthracene	120-12-7	0.0014	0.000000	8,760	2.08E-08	2.08E-08
70128	TANK 326	Hydrogen sulfide	7783-06-4	0.1156	0.000013	8,760	1.66E-06	1.66E-06
70129	TANK 329	PAHs, total, w/o indiv. comp.	1151	0.0200	0.000002	8,760	2.88E-07	2.88E-07
70129	TANK 329	Hexane	110-54-3	0.0412	0.000005	8,760	5.92E-07	5.92E-07
70129	TANK 329	Cyclohexane	110-82-7	0.0559	0.000006	8,760	8.04E-07	8.04E-07
70129	TANK 329	Anthracene	120-12-7	0.0026	0.000000	8,760	3.77E-08	3.77E-08
70129	TANK 329	Hydrogen sulfide	7783-06-4	0.1147	0.000013	8,760	1.65E-06	1.65E-06
70130	TANK 330	Benzene	71-43-2	1.8338	0.000209	8,760	2.64E-05	2.64E-05
70130	TANK 330	Naphthalene	91-20-3	0.0039	0.000000	8,760	5.68E-08	5.68E-08
70130	TANK 330	Ethyl benzene	100-41-4	0.7516	0.000086	8,760	1.08E-05	1.08E-05
70130	TANK 330	Toluene	108-88-3	3.4823	0.000398	8,760	5.01E-05	5.01E-05
70130	TANK 330	Hexane	110-54-3	21.6648	0.002473	8,760	3.12E-04	3.12E-04
70130	TANK 330	Cyclohexane	110-82-7	5.6774	0.000648	8,760	8.17E-05	8.17E-05
70130	TANK 330	Xylenes (mixed isomers)	1330-20-7	3.1345	0.000358	8,760	4.51E-05	4.51E-05
70131	TANK 332	PAHs, total, w/o indiv. comp.	1151	0.0463	0.000005	8,760	6.65E-07	6.65E-07
70131	TANK 332	Benzene	71-43-2	1.0959	0.000125	8,760	1.58E-05	1.58E-05
70131	TANK 332	Ethylene	74-85-1	0.0238	0.000003	8,760	3.42E-07	3.42E-07

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70131	TANK 332	Naphthalene	91-20-3	0.9672	0.000110	8,760	1.39E-05	1.39E-05
70131	TANK 332	1,2,4-Trimethylbenzene	95-63-6	1.5050	0.000172	8,760	2.16E-05	2.16E-05
70131	TANK 332	Cumene	98-82-8	0.1408	0.000016	8,760	2.03E-06	2.03E-06
70131	TANK 332	Ethyl benzene	100-41-4	0.3848	0.000044	8,760	5.54E-06	5.54E-06
70131	TANK 332	Styrene	100-42-5	0.1588	0.000018	8,760	2.28E-06	2.28E-06
70131	TANK 332	1,3-Butadiene	106-99-0	0.0238	0.000003	8,760	3.42E-07	3.42E-07
70131	TANK 332	Toluene	108-88-3	0.4629	0.000053	8,760	6.66E-06	6.66E-06
70131	TANK 332	Phenol	108-95-2	0.0100	0.000001	8,760	1.44E-07	1.44E-07
70131	TANK 332	Hexane	110-54-3	0.4136	0.000047	8,760	5.95E-06	5.95E-06
70131	TANK 332	Cyclohexane	110-82-7	0.2727	0.000031	8,760	3.92E-06	3.92E-06
70131	TANK 332	Propylene	115-07-1	0.0238	0.000003	8,760	3.42E-07	3.42E-07
70131	TANK 332	Xylenes (mixed isomers)	1330-20-7	1.6294	0.000186	8,760	2.34E-05	2.34E-05
70131	TANK 332	Methyl tert-butyl ether	1634-04-4	0.0925	0.000011	8,760	1.33E-06	1.33E-06
70131	TANK 332	Hydrogen sulfide	7783-06-4	0.0095	0.000001	8,760	1.37E-07	1.37E-07
70132	TANK 333	PAHs, total, w/o indiv. comp.	1151	0.0738	0.000008	8,760	1.06E-06	1.06E-06
70132	TANK 333	Benzene	71-43-2	1.1199	0.000128	8,760	1.61E-05	1.61E-05
70132	TANK 333	Ethylene	74-85-1	0.0371	0.000004	8,760	5.34E-07	5.34E-07
70132	TANK 333	Naphthalene	91-20-3	1.5176	0.000173	8,760	2.18E-05	2.18E-05
70132	TANK 333	1,2,4-Trimethylbenzene	95-63-6	2.2360	0.000255	8,760	3.22E-05	3.22E-05
70132	TANK 333	Cumene	98-82-8	0.1945	0.000022	8,760	2.80E-06	2.80E-06
70132	TANK 333	Ethyl benzene	100-41-4	0.4890	0.000056	8,760	7.03E-06	7.03E-06
70132	TANK 333	Styrene	100-42-5	0.2119	0.000024	8,760	3.05E-06	3.05E-06
70132	TANK 333	1,3-Butadiene	106-99-0	0.0371	0.000004	8,760	5.34E-07	5.34E-07
70132	TANK 333	Toluene	108-88-3	0.5182	0.000059	8,760	7.45E-06	7.45E-06
70132	TANK 333	Phenol	108-95-2	0.0155	0.000002	8,760	2.23E-07	2.23E-07
70132	TANK 333	Hexane	110-54-3	0.4148	0.000047	8,760	5.97E-06	5.97E-06
70132	TANK 333	Cyclohexane	110-82-7	0.2783	0.000032	8,760	4.00E-06	4.00E-06
70132	TANK 333	Propylene	115-07-1	0.0371	0.000004	8,760	5.34E-07	5.34E-07
70132	TANK 333	Xylenes (mixed isomers)	1330-20-7	2.1360	0.000244	8,760	3.07E-05	3.07E-05
70132	TANK 333	Methyl tert-butyl ether	1634-04-4	0.1477	0.000017	8,760	2.12E-06	2.12E-06
70132	TANK 333	Hydrogen sulfide	7783-06-4	0.0093	0.000001	8,760	1.34E-07	1.34E-07
70133	TANK 334	PAHs, total, w/o indiv. comp.	1151	0.0684	0.000008	8,760	9.83E-07	9.83E-07

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70133	TANK 334	Benzene	71-43-2	0.9275	0.000106	8,760	1.33E-05	1.33E-05
70133	TANK 334	Ethylene	74-85-1	108.6751	0.012406	8,760	1.56E-03	1.56E-03
70133	TANK 334	Naphthalene	91-20-3	0.3792	0.000043	8,760	5.45E-06	5.45E-06
70133	TANK 334	1,2,4-Trimethylbenzene	95-63-6	0.2072	0.000024	8,760	2.98E-06	2.98E-06
70133	TANK 334	Cumene	98-82-8	0.0772	0.000009	8,760	1.11E-06	1.11E-06
70133	TANK 334	Ethyl benzene	100-41-4	0.1231	0.000014	8,760	1.77E-06	1.77E-06
70133	TANK 334	Styrene	100-42-5	0.0932	0.000011	8,760	1.34E-06	1.34E-06
70133	TANK 334	1,3-Butadiene	106-99-0	4.9534	0.000565	8,760	7.12E-05	7.12E-05
70133	TANK 334	Toluene	108-88-3	0.2952	0.000034	8,760	4.25E-06	4.25E-06
70133	TANK 334	Phenol	108-95-2	0.0164	0.000002	8,760	2.35E-07	2.35E-07
70133	TANK 334	Hexane	110-54-3	0.3333	0.000038	8,760	4.79E-06	4.79E-06
70133	TANK 334	Cyclohexane	110-82-7	0.2160	0.000025	8,760	3.11E-06	3.11E-06
70133	TANK 334	Propylene	115-07-1	19.8925	0.002271	8,760	2.86E-04	2.86E-04
70133	TANK 334	Xylenes (mixed isomers)	1330-20-7	0.2058	0.000023	8,760	2.96E-06	2.96E-06
70133	TANK 334	Methyl tert-butyl ether	1634-04-4	0.0342	0.000004	8,760	4.92E-07	4.92E-07
70134	TANK 370	PAHs, total, w/o indiv. comp.	1151	0.0000	0.000000	8,760	1.82E-12	1.82E-12
70134	TANK 370	Benzene	71-43-2	0.1246	0.000014	8,760	1.79E-06	1.79E-06
70134	TANK 370	Naphthalene	91-20-3	0.0075	0.000001	8,760	1.09E-07	1.09E-07
70134	TANK 370	1,2,4-Trimethylbenzene	95-63-6	0.0891	0.000010	8,760	1.28E-06	1.28E-06
70134	TANK 370	Ethyl benzene	100-41-4	0.0555	0.000006	8,760	7.99E-07	7.99E-07
70134	TANK 370	Toluene	108-88-3	0.1250	0.000014	8,760	1.80E-06	1.80E-06
70134	TANK 370	Phenol	108-95-2	0.0002	0.000000	8,760	3.42E-09	3.42E-09
70134	TANK 370	Anthracene	120-12-7	0.0000	0.000000	8,760	1.82E-12	1.82E-12
70134	TANK 370	Xylenes (mixed isomers)	1330-20-7	0.2432	0.000028	8,760	3.50E-06	3.50E-06
70134	TANK 370	Hydrogen sulfide	7783-06-4	0.3204	0.000037	8,760	4.61E-06	4.61E-06
70135	TANK 294	Benzene	71-43-2	0.3070	0.000035	8,760	4.42E-06	4.42E-06
70135	TANK 294	Ethylene	74-85-1	0.0013	0.000000	8,760	1.85E-08	1.85E-08
70135	TANK 294	Naphthalene	91-20-3	0.0231	0.000003	8,760	3.33E-07	3.33E-07
70135	TANK 294	1,2,4-Trimethylbenzene	95-63-6	0.0727	0.000008	8,760	1.05E-06	1.05E-06
70135	TANK 294	Cumene	98-82-8	0.0148	0.000002	8,760	2.12E-07	2.12E-07
70135	TANK 294	Ethyl benzene	100-41-4	0.0611	0.000007	8,760	8.79E-07	8.79E-07
70135	TANK 294	Styrene	100-42-5	0.0203	0.000002	8,760	2.92E-07	2.92E-07

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70135	TANK 294	1,3-Butadiene	106-99-0	0.0013	0.000000	8,760	1.85E-08	1.85E-08
70135	TANK 294	Toluene	108-88-3	0.1794	0.000020	8,760	2.58E-06	2.58E-06
70135	TANK 294	Phenol	108-95-2	0.0012	0.000000	8,760	1.66E-08	1.66E-08
70135	TANK 294	Hexane	110-54-3	0.5085	0.000058	8,760	7.31E-06	7.31E-06
70135	TANK 294	Cyclohexane	110-82-7	0.3253	0.000037	8,760	4.68E-06	4.68E-06
70135	TANK 294	Propylene	115-07-1	0.0013	0.000000	8,760	1.85E-08	1.85E-08
70135	TANK 294	Xylenes (mixed isomers)	1330-20-7	0.2835	0.000032	8,760	4.08E-06	4.08E-06
70135	TANK 294	Hydrogen sulfide	7783-06-4	3.2746	0.000374	8,760	4.71E-05	4.71E-05
70136	TANK 327	PAHs, total, w/o indiv. comp.	1151	0.0000	0.000000	8,760	2.00E-12	2.00E-12
70136	TANK 327	Hexane	110-54-3	0.9885	0.000113	8,760	1.42E-05	1.42E-05
70136	TANK 327	Cyclohexane	110-82-7	1.0119	0.000116	8,760	1.46E-05	1.46E-05
70136	TANK 327	Anthracene	120-12-7	0.0000	0.000000	8,760	2.00E-12	2.00E-12
70136	TANK 327	Hydrogen sulfide	7783-06-4	6.5234	0.000745	8,760	9.38E-05	9.38E-05
70137	TANK 328	PAHs, total, w/o indiv. comp.	1151	0.0000	0.000000	8,760	2.69E-12	2.69E-12
70137	TANK 328	Hexane	110-54-3	1.3289	0.000152	8,760	1.91E-05	1.91E-05
70137	TANK 328	Cyclohexane	110-82-7	1.3602	0.000155	8,760	1.96E-05	1.96E-05
70137	TANK 328	Anthracene	120-12-7	0.0000	0.000000	8,760	2.69E-12	2.69E-12
70137	TANK 328	Hydrogen sulfide	7783-06-4	8.7692	0.001001	8,760	1.26E-04	1.26E-04
70138	TANK 336	Benzene	71-43-2	0.1746	0.000020	8,760	2.51E-06	2.51E-06
70138	TANK 336	Ethylene	74-85-1	0.0007	0.000000	8,760	1.05E-08	1.05E-08
70138	TANK 336	Naphthalene	91-20-3	0.0132	0.000002	8,760	1.89E-07	1.89E-07
70138	TANK 336	1,2,4-Trimethylbenzene	95-63-6	0.0413	0.000005	8,760	5.94E-07	5.94E-07
70138	TANK 336	Cumene	98-82-8	0.0084	0.000001	8,760	1.21E-07	1.21E-07
70138	TANK 336	Ethyl benzene	100-41-4	0.0348	0.000004	8,760	5.00E-07	5.00E-07
70138	TANK 336	Styrene	100-42-5	0.0115	0.000001	8,760	1.66E-07	1.66E-07
70138	TANK 336	1,3-Butadiene	106-99-0	0.0007	0.000000	8,760	1.05E-08	1.05E-08
70138	TANK 336	Toluene	108-88-3	0.1020	0.000012	8,760	1.47E-06	1.47E-06
70138	TANK 336	Phenol	108-95-2	0.0007	0.000000	8,760	9.45E-09	9.45E-09
70138	TANK 336	Hexane	110-54-3	0.2892	0.000033	8,760	4.16E-06	4.16E-06
70138	TANK 336	Cyclohexane	110-82-7	0.1850	0.000021	8,760	2.66E-06	2.66E-06
70138	TANK 336	Propylene	115-07-1	0.0007	0.000000	8,760	1.05E-08	1.05E-08
70138	TANK 336	Xylenes (mixed isomers)	1330-20-7	0.1612	0.000018	8,760	2.32E-06	2.32E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70138	TANK 336	Hydrogen sulfide	7783-06-4	1.8621	0.000213	8,760	2.68E-05	2.68E-05
70139	TANK 335	PAHs, total, w/o indiv. comp.	1151	0.0459	0.000005	8,760	6.60E-07	6.60E-07
70139	TANK 335	Benzene	71-43-2	1.0951	0.000125	8,760	1.58E-05	1.58E-05
70139	TANK 335	Ethylene	74-85-1	0.0236	0.000003	8,760	3.40E-07	3.40E-07
70139	TANK 335	Naphthalene	91-20-3	0.9594	0.000110	8,760	1.38E-05	1.38E-05
70139	TANK 335	1,2,4-Trimethylbenzene	95-63-6	1.4945	0.000171	8,760	2.15E-05	2.15E-05
70139	TANK 335	Cumene	98-82-8	0.1400	0.000016	8,760	2.01E-06	2.01E-06
70139	TANK 335	Ethyl benzene	100-41-4	0.3833	0.000044	8,760	5.51E-06	5.51E-06
70139	TANK 335	Styrene	100-42-5	0.1580	0.000018	8,760	2.27E-06	2.27E-06
70139	TANK 335	1,3-Butadiene	106-99-0	0.0236	0.000003	8,760	3.40E-07	3.40E-07
70139	TANK 335	Toluene	108-88-3	0.4620	0.000053	8,760	6.64E-06	6.64E-06
70139	TANK 335	Phenol	108-95-2	0.0099	0.000001	8,760	1.43E-07	1.43E-07
70139	TANK 335	Hexane	110-54-3	0.4134	0.000047	8,760	5.95E-06	5.95E-06
70139	TANK 335	Cyclohexane	110-82-7	0.2725	0.000031	8,760	3.92E-06	3.92E-06
70139	TANK 335	Propylene	115-07-1	0.0236	0.000003	8,760	3.40E-07	3.40E-07
70139	TANK 335	Xylenes (mixed isomers)	1330-20-7	1.6219	0.000185	8,760	2.33E-05	2.33E-05
70139	TANK 335	Methyl tert-butyl ether	1634-04-4	0.0917	0.000010	8,760	1.32E-06	1.32E-06
70139	TANK 335	Hydrogen sulfide	7783-06-4	0.0095	0.000001	8,760	1.37E-07	1.37E-07
70141	TANK 350	PAHs, total, w/o indiv. comp.	1151	0.0491	0.000006	8,760	7.06E-07	7.06E-07
70141	TANK 350	Benzene	71-43-2	2.6607	0.000304	8,760	3.83E-05	3.83E-05
70141	TANK 350	Ethylene	74-85-1	0.0274	0.000003	8,760	3.94E-07	3.94E-07
70141	TANK 350	Naphthalene	91-20-3	1.0892	0.000124	8,760	1.57E-05	1.57E-05
70141	TANK 350	1,2,4-Trimethylbenzene	95-63-6	1.9932	0.000228	8,760	2.87E-05	2.87E-05
70141	TANK 350	Cumene	98-82-8	0.2215	0.000025	8,760	3.19E-06	3.19E-06
70141	TANK 350	Ethyl benzene	100-41-4	0.7066	0.000081	8,760	1.02E-05	1.02E-05
70141	TANK 350	Styrene	100-42-5	0.2675	0.000031	8,760	3.85E-06	3.85E-06
70141	TANK 350	1,3-Butadiene	106-99-0	0.0274	0.000003	8,760	3.94E-07	3.94E-07
70141	TANK 350	Toluene	108-88-3	1.0165	0.000116	8,760	1.46E-05	1.46E-05
70141	TANK 350	Phenol	108-95-2	0.0117	0.000001	8,760	1.69E-07	1.69E-07
70141	TANK 350	Hexane	110-54-3	1.0230	0.000117	8,760	1.47E-05	1.47E-05
70141	TANK 350	Cyclohexane	110-82-7	0.6630	0.000076	8,760	9.54E-06	9.54E-06
70141	TANK 350	Propylene	115-07-1	0.0274	0.000003	8,760	3.94E-07	3.94E-07

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70141	TANK 350	Xylenes (mixed isomers)	1330-20-7	2.8356	0.000324	8,760	4.08E-05	4.08E-05
70141	TANK 350	Methyl tert-butyl ether	1634-04-4	0.0982	0.000011	8,760	1.41E-06	1.41E-06
70141	TANK 350	Hydrogen sulfide	7783-06-4	0.0240	0.000003	8,760	3.45E-07	3.45E-07
70142	TANK 351	PAHs, total, w/o indiv. comp.	1151	0.0672	0.000008	8,760	9.67E-07	9.67E-07
70142	TANK 351	Benzene	71-43-2	2.6942	0.000308	8,760	3.88E-05	3.88E-05
70142	TANK 351	Ethylene	74-85-1	0.0361	0.000004	8,760	5.20E-07	5.20E-07
70142	TANK 351	Naphthalene	91-20-3	1.4519	0.000166	8,760	2.09E-05	2.09E-05
70142	TANK 351	1,2,4-Trimethylbenzene	95-63-6	2.4786	0.000283	8,760	3.57E-05	3.57E-05
70142	TANK 351	Cumene	98-82-8	0.2576	0.000029	8,760	3.71E-06	3.71E-06
70142	TANK 351	Ethyl benzene	100-41-4	0.7787	0.000089	8,760	1.12E-05	1.12E-05
70142	TANK 351	Styrene	100-42-5	0.3036	0.000035	8,760	4.37E-06	4.37E-06
70142	TANK 351	1,3-Butadiene	106-99-0	0.0361	0.000004	8,760	5.20E-07	5.20E-07
70142	TANK 351	Toluene	108-88-3	1.0590	0.000121	8,760	1.52E-05	1.52E-05
70142	TANK 351	Phenol	108-95-2	0.0154	0.000002	8,760	2.21E-07	2.21E-07
70142	TANK 351	Hexane	110-54-3	1.0306	0.000118	8,760	1.48E-05	1.48E-05
70142	TANK 351	Cyclohexane	110-82-7	0.6711	0.000077	8,760	9.65E-06	9.65E-06
70142	TANK 351	Propylene	115-07-1	0.0361	0.000004	8,760	5.20E-07	5.20E-07
70142	TANK 351	Xylenes (mixed isomers)	1330-20-7	3.1818	0.000363	8,760	4.58E-05	4.58E-05
70142	TANK 351	Methyl tert-butyl ether	1634-04-4	0.1345	0.000015	8,760	1.93E-06	1.93E-06
70142	TANK 351	Hydrogen sulfide	7783-06-4	0.0240	0.000003	8,760	3.46E-07	3.46E-07
70143	TANK 352	Benzene	71-43-2	0.4025	0.000046	8,760	5.79E-06	5.79E-06
70143	TANK 352	Naphthalene	91-20-3	0.0291	0.000003	8,760	4.19E-07	4.19E-07
70143	TANK 352	1,2,4-Trimethylbenzene	95-63-6	0.2619	0.000030	8,760	3.77E-06	3.77E-06
70143	TANK 352	Cumene	98-82-8	0.0138	0.000002	8,760	1.99E-07	1.99E-07
70143	TANK 352	Ethyl benzene	100-41-4	0.1760	0.000020	8,760	2.53E-06	2.53E-06
70143	TANK 352	Toluene	108-88-3	0.8739	0.000100	8,760	1.26E-05	1.26E-05
70143	TANK 352	Hexane	110-54-3	5.1949	0.000593	8,760	7.47E-05	7.47E-05
70143	TANK 352	Cyclohexane	110-82-7	2.0235	0.000231	8,760	2.91E-05	2.91E-05
70143	TANK 352	Propylene	115-07-1	3.0161	0.000344	8,760	4.34E-05	4.34E-05
70143	TANK 352	Xylenes (mixed isomers)	1330-20-7	0.8177	0.000093	8,760	1.18E-05	1.18E-05
70143	TANK 352	Methyl tert-butyl ether	1634-04-4	0.0188	0.000002	8,760	2.70E-07	2.70E-07
70143	TANK 352	Hydrogen sulfide	7783-06-4	79.2710	0.009049	8,760	1.14E-03	1.14E-03

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70144	TANK 353	Benzene	71-43-2	0.3983	0.000045	8,760	5.73E-06	5.73E-06
70144	TANK 353	Naphthalene	91-20-3	0.0240	0.000003	8,760	3.45E-07	3.45E-07
70144	TANK 353	1,2,4-Trimethylbenzene	95-63-6	0.2248	0.000026	8,760	3.23E-06	3.23E-06
70144	TANK 353	Cumene	98-82-8	0.0124	0.000001	8,760	1.78E-07	1.78E-07
70144	TANK 353	Ethyl benzene	100-41-4	0.1637	0.000019	8,760	2.35E-06	2.35E-06
70144	TANK 353	Toluene	108-88-3	0.8467	0.000097	8,760	1.22E-05	1.22E-05
70144	TANK 353	Hexane	110-54-3	5.1610	0.000589	8,760	7.42E-05	7.42E-05
70144	TANK 353	Cyclohexane	110-82-7	2.0033	0.000229	8,760	2.88E-05	2.88E-05
70144	TANK 353	Propylene	115-07-1	3.0158	0.000344	8,760	4.34E-05	4.34E-05
70144	TANK 353	Xylenes (mixed isomers)	1330-20-7	0.7513	0.000086	8,760	1.08E-05	1.08E-05
70144	TANK 353	Methyl tert-butyl ether	1634-04-4	0.0152	0.000002	8,760	2.19E-07	2.19E-07
70144	TANK 353	Hydrogen sulfide	7783-06-4	79.2532	0.009047	8,760	1.14E-03	1.14E-03
70145	TANK 389	PAHs, total, w/o indiv. comp.	1151	0.0131	0.000001	8,760	1.88E-07	1.88E-07
70145	TANK 389	Hexane	110-54-3	0.0359	0.000004	8,760	5.16E-07	5.16E-07
70145	TANK 389	Cyclohexane	110-82-7	0.0457	0.000005	8,760	6.57E-07	6.57E-07
70145	TANK 389	Anthracene	120-12-7	0.0017	0.000000	8,760	2.46E-08	2.46E-08
70145	TANK 389	Hydrogen sulfide	7783-06-4	0.1343	0.000015	8,760	1.93E-06	1.93E-06
70146	TANK 390	PAHs, total, w/o indiv. comp.	1151	0.0000	0.000000	8,760	4.11E-14	4.11E-14
70146	TANK 390	Hexane	110-54-3	0.0203	0.000002	8,760	2.92E-07	2.92E-07
70146	TANK 390	Cyclohexane	110-82-7	0.0208	0.000002	8,760	2.99E-07	2.99E-07
70146	TANK 390	Anthracene	120-12-7	0.0000	0.000000	8,760	4.11E-14	4.11E-14
70146	TANK 390	Hydrogen sulfide	7783-06-4	0.1341	0.000015	8,760	1.93E-06	1.93E-06
70148	TANK 393	PAHs, total, w/o indiv. comp.	1151	0.0031	0.000000	8,760	4.41E-08	4.41E-08
70148	TANK 393	Hexane	110-54-3	0.0256	0.000003	8,760	3.68E-07	3.68E-07
70148	TANK 393	Cyclohexane	110-82-7	0.0283	0.000003	8,760	4.07E-07	4.07E-07
70148	TANK 393	Anthracene	120-12-7	0.0004	0.000000	8,760	5.78E-09	5.78E-09
70148	TANK 393	Hydrogen sulfide	7783-06-4	0.1450	0.000017	8,760	2.08E-06	2.08E-06
70149	TANK 394	PAHs, total, w/o indiv. comp.	1151	0.0041	0.000000	8,760	5.87E-08	5.87E-08
70149	TANK 394	Hexane	110-54-3	0.0268	0.000003	8,760	3.86E-07	3.86E-07
70149	TANK 394	Cyclohexane	110-82-7	0.0303	0.000003	8,760	4.35E-07	4.35E-07
70149	TANK 394	Anthracene	120-12-7	0.0005	0.000000	8,760	7.69E-09	7.69E-09
70149	TANK 394	Hydrogen sulfide	7783-06-4	0.1450	0.000017	8,760	2.09E-06	2.09E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70150	TANK 395	PAHs, total, w/o indiv. comp.	1151	0.0009	0.000000	8,760	1.25E-08	1.25E-08
70150	TANK 395	Benzene	71-43-2	0.9945	0.000114	8,760	1.43E-05	1.43E-05
70150	TANK 395	Naphthalene	91-20-3	0.0798	0.000009	8,760	1.15E-06	1.15E-06
70150	TANK 395	1,2,4-Trimethylbenzene	95-63-6	0.7597	0.000087	8,760	1.09E-05	1.09E-05
70150	TANK 395	Ethyl benzene	100-41-4	0.4488	0.000051	8,760	6.46E-06	6.46E-06
70150	TANK 395	Toluene	108-88-3	1.0010	0.000114	8,760	1.44E-05	1.44E-05
70150	TANK 395	Phenol	108-95-2	0.0022	0.000000	8,760	3.22E-08	3.22E-08
70150	TANK 395	Anthracene	120-12-7	0.0007	0.000000	8,760	9.62E-09	9.62E-09
70150	TANK 395	Xylenes (mixed isomers)	1330-20-7	1.9734	0.000225	8,760	2.84E-05	2.84E-05
70150	TANK 395	Hydrogen sulfide	7783-06-4	2.5546	0.000292	8,760	3.67E-05	3.67E-05
70151	TANK 396	PAHs, total, w/o indiv. comp.	1151	0.0038	0.000000	8,760	5.44E-08	5.44E-08
70151	TANK 396	Hexane	110-54-3	0.0263	0.000003	8,760	3.78E-07	3.78E-07
70151	TANK 396	Cyclohexane	110-82-7	0.0295	0.000003	8,760	4.24E-07	4.24E-07
70151	TANK 396	Anthracene	120-12-7	0.0005	0.000000	8,760	7.13E-09	7.13E-09
70151	TANK 396	Hydrogen sulfide	7783-06-4	0.1437	0.000016	8,760	2.07E-06	2.07E-06
70152	TANK 397	PAHs, total, w/o indiv. comp.	1151	0.0027	0.000000	8,760	3.86E-08	3.86E-08
70152	TANK 397	Hexane	110-54-3	0.0249	0.000003	8,760	3.58E-07	3.58E-07
70152	TANK 397	Cyclohexane	110-82-7	0.0273	0.000003	8,760	3.93E-07	3.93E-07
70152	TANK 397	Anthracene	120-12-7	0.0004	0.000000	8,760	5.06E-09	5.06E-09
70152	TANK 397	Hydrogen sulfide	7783-06-4	0.1432	0.000016	8,760	2.06E-06	2.06E-06
70153	TANK 398	PAHs, total, w/o indiv. comp.	1151	0.0038	0.000000	8,760	5.49E-08	5.49E-08
70153	TANK 398	Hexane	110-54-3	0.0265	0.000003	8,760	3.81E-07	3.81E-07
70153	TANK 398	Cyclohexane	110-82-7	0.0298	0.000003	8,760	4.28E-07	4.28E-07
70153	TANK 398	Anthracene	120-12-7	0.0005	0.000000	8,760	7.19E-09	7.19E-09
70153	TANK 398	Hydrogen sulfide	7783-06-4	0.1450	0.000017	8,760	2.09E-06	2.09E-06
70154	TANK 401	Benzene	71-43-2	4.4273	0.000505	8,760	6.37E-05	6.37E-05
70154	TANK 401	Naphthalene	91-20-3	0.0338	0.000004	8,760	4.86E-07	4.86E-07
70154	TANK 401	1,2,4-Trimethylbenzene	95-63-6	1.1547	0.000132	8,760	1.66E-05	1.66E-05
70154	TANK 401	Cumene	98-82-8	0.0931	0.000011	8,760	1.34E-06	1.34E-06
70154	TANK 401	Ethyl benzene	100-41-4	2.9582	0.000338	8,760	4.25E-05	4.25E-05
70154	TANK 401	Toluene	108-88-3	34.5384	0.003943	8,760	4.97E-04	4.97E-04
70154	TANK 401	Hexane	110-54-3	14.6934	0.001677	8,760	2.11E-04	2.11E-04

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70154	TANK 401	Xylenes (mixed isomers)	1330-20-7	11.8387	0.001351	8,760	1.70E-04	1.70E-04
70155	TANK 402	Benzene	71-43-2	4.5823	0.000523	8,760	6.59E-05	6.59E-05
70155	TANK 402	Naphthalene	91-20-3	0.0351	0.000004	8,760	5.04E-07	5.04E-07
70155	TANK 402	1,2,4-Trimethylbenzene	95-63-6	1.1958	0.000137	8,760	1.72E-05	1.72E-05
70155	TANK 402	Cumene	98-82-8	0.0964	0.000011	8,760	1.39E-06	1.39E-06
70155	TANK 402	Ethyl benzene	100-41-4	3.0621	0.000350	8,760	4.40E-05	4.40E-05
70155	TANK 402	Toluene	108-88-3	35.7483	0.004081	8,760	5.14E-04	5.14E-04
70155	TANK 402	Hexane	110-54-3	15.2076	0.001736	8,760	2.19E-04	2.19E-04
70155	TANK 402	Xylenes (mixed isomers)	1330-20-7	12.2549	0.001399	8,760	1.76E-04	1.76E-04
70156	TANK 404	Benzene	71-43-2	4.4246	0.000505	8,760	6.36E-05	6.36E-05
70156	TANK 404	Naphthalene	91-20-3	0.0345	0.000004	8,760	4.96E-07	4.96E-07
70156	TANK 404	1,2,4-Trimethylbenzene	95-63-6	1.1595	0.000132	8,760	1.67E-05	1.67E-05
70156	TANK 404	Cumene	98-82-8	0.0932	0.000011	8,760	1.34E-06	1.34E-06
70156	TANK 404	Ethyl benzene	100-41-4	2.9590	0.000338	8,760	4.26E-05	4.26E-05
70156	TANK 404	Toluene	108-88-3	34.5253	0.003941	8,760	4.97E-04	4.97E-04
70156	TANK 404	Hexane	110-54-3	14.6838	0.001676	8,760	2.11E-04	2.11E-04
70156	TANK 404	Xylenes (mixed isomers)	1330-20-7	11.8452	0.001352	8,760	1.70E-04	1.70E-04
70157	TANK 406	Benzene	71-43-2	4.4583	0.000509	8,760	6.41E-05	6.41E-05
70157	TANK 406	Naphthalene	91-20-3	0.0341	0.000004	8,760	4.91E-07	4.91E-07
70157	TANK 406	1,2,4-Trimethylbenzene	95-63-6	1.1636	0.000133	8,760	1.67E-05	1.67E-05
70157	TANK 406	Cumene	98-82-8	0.0937	0.000011	8,760	1.35E-06	1.35E-06
70157	TANK 406	Ethyl benzene	100-41-4	2.9793	0.000340	8,760	4.29E-05	4.29E-05
70157	TANK 406	Toluene	108-88-3	34.7813	0.003970	8,760	5.00E-04	5.00E-04
70157	TANK 406	Hexane	110-54-3	14.7961	0.001689	8,760	2.13E-04	2.13E-04
70157	TANK 406	Xylenes (mixed isomers)	1330-20-7	11.9236	0.001361	8,760	1.71E-04	1.71E-04
70158	TANK 407	Benzene	71-43-2	4.8617	0.000555	8,760	6.99E-05	6.99E-05
70158	TANK 407	Naphthalene	91-20-3	0.0382	0.000004	8,760	5.50E-07	5.50E-07
70158	TANK 407	1,2,4-Trimethylbenzene	95-63-6	1.2766	0.000146	8,760	1.84E-05	1.84E-05
70158	TANK 407	Cumene	98-82-8	0.1025	0.000012	8,760	1.47E-06	1.47E-06
70158	TANK 407	Ethyl benzene	100-41-4	3.2526	0.000371	8,760	4.68E-05	4.68E-05
70158	TANK 407	Toluene	108-88-3	37.9402	0.004331	8,760	5.46E-04	5.46E-04
70158	TANK 407	Hexane	110-54-3	16.1344	0.001842	8,760	2.32E-04	2.32E-04

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70158	TANK 407	Xylenes (mixed isomers)	1330-20-7	13.0218	0.001487	8,760	1.87E-04	1.87E-04
70159	TANK 408	Benzene	71-43-2	4.8300	0.000551	8,760	6.95E-05	6.95E-05
70159	TANK 408	Naphthalene	91-20-3	0.0365	0.000004	8,760	5.26E-07	5.26E-07
70159	TANK 408	1,2,4-Trimethylbenzene	95-63-6	1.2574	0.000144	8,760	1.81E-05	1.81E-05
70159	TANK 408	Cumene	98-82-8	0.1015	0.000012	8,760	1.46E-06	1.46E-06
70159	TANK 408	Ethyl benzene	100-41-4	3.2263	0.000368	8,760	4.64E-05	4.64E-05
70159	TANK 408	Toluene	108-88-3	37.6765	0.004301	8,760	5.42E-04	5.42E-04
70159	TANK 408	Hexane	110-54-3	16.0300	0.001830	8,760	2.31E-04	2.31E-04
70159	TANK 408	Xylenes (mixed isomers)	1330-20-7	12.9098	0.001474	8,760	1.86E-04	1.86E-04
70161	TANK 410	Benzene	71-43-2	4.7988	0.000548	8,760	6.90E-05	6.90E-05
70161	TANK 410	Naphthalene	91-20-3	0.0358	0.000004	8,760	5.15E-07	5.15E-07
70161	TANK 410	1,2,4-Trimethylbenzene	95-63-6	1.2455	0.000142	8,760	1.79E-05	1.79E-05
70161	TANK 410	Cumene	98-82-8	0.1007	0.000011	8,760	1.45E-06	1.45E-06
70161	TANK 410	Ethyl benzene	100-41-4	3.2036	0.000366	8,760	4.61E-05	4.61E-05
70161	TANK 410	Toluene	108-88-3	37.4276	0.004273	8,760	5.38E-04	5.38E-04
70161	TANK 410	Hexane	110-54-3	15.9269	0.001818	8,760	2.29E-04	2.29E-04
70161	TANK 410	Xylenes (mixed isomers)	1330-20-7	12.8170	0.001463	8,760	1.84E-04	1.84E-04
70162	TANK 433	Benzene	71-43-2	0.4011	0.000046	8,760	5.77E-06	5.77E-06
70162	TANK 433	Naphthalene	91-20-3	0.0274	0.000003	8,760	3.95E-07	3.95E-07
70162	TANK 433	1,2,4-Trimethylbenzene	95-63-6	0.2497	0.000028	8,760	3.59E-06	3.59E-06
70162	TANK 433	Cumene	98-82-8	0.0134	0.000002	8,760	1.92E-07	1.92E-07
70162	TANK 433	Ethyl benzene	100-41-4	0.1719	0.000020	8,760	2.47E-06	2.47E-06
70162	TANK 433	Toluene	108-88-3	0.8649	0.000099	8,760	1.24E-05	1.24E-05
70162	TANK 433	Hexane	110-54-3	5.1837	0.000592	8,760	7.46E-05	7.46E-05
70162	TANK 433	Cyclohexane	110-82-7	2.0168	0.000230	8,760	2.90E-05	2.90E-05
70162	TANK 433	Propylene	115-07-1	3.0160	0.000344	8,760	4.34E-05	4.34E-05
70162	TANK 433	Xylenes (mixed isomers)	1330-20-7	0.7958	0.000091	8,760	1.14E-05	1.14E-05
70162	TANK 433	Methyl tert-butyl ether	1634-04-4	0.0176	0.000002	8,760	2.53E-07	2.53E-07
70162	TANK 433	Hydrogen sulfide	7783-06-4	79.2651	0.009049	8,760	1.14E-03	1.14E-03
70163	TANK 445	PAHs, total, w/o indiv. comp.	1151	0.0080	0.000001	8,760	1.15E-07	1.15E-07
70163	TANK 445	Hexane	110-54-3	0.0357	0.000004	8,760	5.14E-07	5.14E-07
70163	TANK 445	Cyclohexane	110-82-7	0.0421	0.000005	8,760	6.05E-07	6.05E-07

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70163	TANK 445	Anthracene	120-12-7	0.0010	0.000000	8,760	1.51E-08	1.51E-08
70163	TANK 445	Hydrogen sulfide	7783-06-4	0.1729	0.000020	8,760	2.49E-06	2.49E-06
70164	TANK 450	Benzene	71-43-2	0.4511	0.000051	8,760	6.49E-06	6.49E-06
70164	TANK 450	Naphthalene	91-20-3	0.0081	0.000001	8,760	1.16E-07	1.16E-07
70164	TANK 450	1,2,4-Trimethylbenzene	95-63-6	0.1200	0.000014	8,760	1.73E-06	1.73E-06
70164	TANK 450	Cumene	98-82-8	0.0090	0.000001	8,760	1.29E-07	1.29E-07
70164	TANK 450	Ethyl benzene	100-41-4	0.1446	0.000017	8,760	2.08E-06	2.08E-06
70164	TANK 450	Toluene	108-88-3	0.8874	0.000101	8,760	1.28E-05	1.28E-05
70164	TANK 450	Hexane	110-54-3	5.9209	0.000676	8,760	8.52E-05	8.52E-05
70164	TANK 450	Cyclohexane	110-82-7	2.2708	0.000259	8,760	3.27E-05	3.27E-05
70164	TANK 450	Propylene	115-07-1	3.5354	0.000404	8,760	5.08E-05	5.08E-05
70164	TANK 450	Xylenes (mixed isomers)	1330-20-7	0.6239	0.000071	8,760	8.97E-06	8.97E-06
70164	TANK 450	Methyl tert-butyl ether	1634-04-4	0.0040	0.000000	8,760	5.72E-08	5.72E-08
70164	TANK 450	Hydrogen sulfide	7783-06-4	123.8281	0.014136	8,760	1.78E-03	1.78E-03
70165	TANK 451	Benzene	71-43-2	0.4507	0.000051	8,760	6.48E-06	6.48E-06
70165	TANK 451	Naphthalene	91-20-3	0.0076	0.000001	8,760	1.09E-07	1.09E-07
70165	TANK 451	1,2,4-Trimethylbenzene	95-63-6	0.1163	0.000013	8,760	1.67E-06	1.67E-06
70165	TANK 451	Cumene	98-82-8	0.0089	0.000001	8,760	1.27E-07	1.27E-07
70165	TANK 451	Ethyl benzene	100-41-4	0.1434	0.000016	8,760	2.06E-06	2.06E-06
70165	TANK 451	Toluene	108-88-3	0.8846	0.000101	8,760	1.27E-05	1.27E-05
70165	TANK 451	Hexane	110-54-3	5.9175	0.000676	8,760	8.51E-05	8.51E-05
70165	TANK 451	Cyclohexane	110-82-7	2.2687	0.000259	8,760	3.26E-05	3.26E-05
70165	TANK 451	Propylene	115-07-1	3.5353	0.000404	8,760	5.08E-05	5.08E-05
70165	TANK 451	Xylenes (mixed isomers)	1330-20-7	0.6172	0.000070	8,760	8.88E-06	8.88E-06
70165	TANK 451	Methyl tert-butyl ether	1634-04-4	0.0036	0.000000	8,760	5.20E-08	5.20E-08
70165	TANK 451	Hydrogen sulfide	7783-06-4	123.8257	0.014135	8,760	1.78E-03	1.78E-03
70166	TANK 452	Benzene	71-43-2	0.1797	0.000021	8,760	2.58E-06	2.58E-06
70166	TANK 452	1,2,4-Trimethylbenzene	95-63-6	0.0355	0.000004	8,760	5.10E-07	5.10E-07
70166	TANK 452	Ethyl benzene	100-41-4	0.0510	0.000006	8,760	7.33E-07	7.33E-07
70166	TANK 452	Toluene	108-88-3	0.5848	0.000067	8,760	8.41E-06	8.41E-06
70166	TANK 452	Hexane	110-54-3	1.1374	0.000130	8,760	1.64E-05	1.64E-05
70166	TANK 452	Cyclohexane	110-82-7	0.1849	0.000021	8,760	2.66E-06	2.66E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70166	TANK 452	Xylenes (mixed isomers)	1330-20-7	0.2594	0.000030	8,760	3.73E-06	3.73E-06
70167	TANK 453	Benzene	71-43-2	1.7858	0.000204	8,760	2.57E-05	2.57E-05
70167	TANK 453	Ethyl benzene	100-41-4	3.9468	0.000451	8,760	5.68E-05	5.68E-05
70167	TANK 453	Toluene	108-88-3	16.8587	0.001925	8,760	2.42E-04	2.42E-04
70167	TANK 453	Hexane	110-54-3	4.0772	0.000465	8,760	5.86E-05	5.86E-05
70167	TANK 453	Cyclohexane	110-82-7	2.3514	0.000268	8,760	3.38E-05	3.38E-05
70167	TANK 453	Xylenes (mixed isomers)	1330-20-7	12.8147	0.001463	8,760	1.84E-04	1.84E-04
70168	TANK 461	Benzene	71-43-2	2.6394	0.000301	8,760	3.80E-05	3.80E-05
70168	TANK 461	Naphthalene	91-20-3	0.0401	0.000005	8,760	5.77E-07	5.77E-07
70168	TANK 461	1,2,4-Trimethylbenzene	95-63-6	0.6515	0.000074	8,760	9.37E-06	9.37E-06
70168	TANK 461	Cumene	98-82-8	0.0508	0.000006	8,760	7.30E-07	7.30E-07
70168	TANK 461	Ethyl benzene	100-41-4	0.8311	0.000095	8,760	1.20E-05	1.20E-05
70168	TANK 461	Toluene	108-88-3	5.1656	0.000590	8,760	7.43E-05	7.43E-05
70168	TANK 461	Hexane	110-54-3	34.6745	0.003958	8,760	4.99E-04	4.99E-04
70168	TANK 461	Cyclohexane	110-82-7	13.2879	0.001517	8,760	1.91E-04	1.91E-04
70168	TANK 461	Propylene	115-07-1	20.7320	0.002367	8,760	2.98E-04	2.98E-04
70168	TANK 461	Xylenes (mixed isomers)	1330-20-7	3.5653	0.000407	8,760	5.13E-05	5.13E-05
70168	TANK 461	Methyl tert-butyl ether	1634-04-4	0.0183	0.000002	8,760	2.63E-07	2.63E-07
70169	TANK 462	Benzene	71-43-2	2.7289	0.000312	8,760	3.93E-05	3.93E-05
70169	TANK 462	Naphthalene	91-20-3	0.1517	0.000017	8,760	2.18E-06	2.18E-06
70169	TANK 462	1,2,4-Trimethylbenzene	95-63-6	1.4520	0.000166	8,760	2.09E-05	2.09E-05
70169	TANK 462	Cumene	98-82-8	0.0816	0.000009	8,760	1.17E-06	1.17E-06
70169	TANK 462	Ethyl benzene	100-41-4	1.0950	0.000125	8,760	1.57E-05	1.57E-05
70169	TANK 462	Toluene	108-88-3	5.7536	0.000657	8,760	8.28E-05	8.28E-05
70169	TANK 462	Hexane	110-54-3	35.4065	0.004042	8,760	5.09E-04	5.09E-04
70169	TANK 462	Cyclohexane	110-82-7	13.7252	0.001567	8,760	1.97E-04	1.97E-04
70169	TANK 462	Propylene	115-07-1	20.7392	0.002367	8,760	2.98E-04	2.98E-04
70169	TANK 462	Xylenes (mixed isomers)	1330-20-7	4.9985	0.000571	8,760	7.19E-05	7.19E-05
70169	TANK 462	Methyl tert-butyl ether	1634-04-4	0.0954	0.000011	8,760	1.37E-06	1.37E-06
70170	API SEPARATOR 1	Chloroform	67-66-3	1.6269	0.000186	8,760	2.34E-05	2.34E-05
70170	API SEPARATOR 1	Benzene	71-43-2	21.9288	0.002503	8,760	3.15E-04	3.15E-04
70170	API SEPARATOR 1	Bromoform	75-25-2	0.0736	0.000008	8,760	1.06E-06	1.06E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70170	API SEPARATOR 1	Naphthalene	91-20-3	0.1627	0.000019	8,760	2.34E-06	2.34E-06
70170	API SEPARATOR 1	o-Xylene	95-47-6	1.6742	0.000191	8,760	2.41E-05	2.41E-05
70170	API SEPARATOR 1	1,2,4-Trimethylbenzene	95-63-6	1.5615	0.000178	8,760	2.25E-05	2.25E-05
70170	API SEPARATOR 1	Cumene	98-82-8	0.7924	0.000090	8,760	1.14E-05	1.14E-05
70170	API SEPARATOR 1	Ethyl benzene	100-41-4	1.0676	0.000122	8,760	1.54E-05	1.54E-05
70170	API SEPARATOR 1	p-Xylene	106-42-3	4.0769	0.000465	8,760	5.86E-05	5.86E-05
70170	API SEPARATOR 1	Toluene	108-88-3	3.8577	0.000440	8,760	5.55E-05	5.55E-05
70171	DAF CELL 1	Chloroform	67-66-3	0.1988	0.000023	8,760	2.86E-06	2.86E-06
70171	DAF CELL 1	Benzene	71-43-2	2.6785	0.000306	8,760	3.85E-05	3.85E-05
70171	DAF CELL 1	Bromoform	75-25-2	0.0091	0.000001	8,760	1.30E-07	1.30E-07
70171	DAF CELL 1	Naphthalene	91-20-3	0.0200	0.000002	8,760	2.87E-07	2.87E-07
70171	DAF CELL 1	o-Xylene	95-47-6	0.2052	0.000023	8,760	2.95E-06	2.95E-06
70171	DAF CELL 1	1,2,4-Trimethylbenzene	95-63-6	0.1915	0.000022	8,760	2.75E-06	2.75E-06
70171	DAF CELL 1	Cumene	98-82-8	0.0971	0.000011	8,760	1.40E-06	1.40E-06
70171	DAF CELL 1	Ethyl benzene	100-41-4	0.1308	0.000015	8,760	1.88E-06	1.88E-06
70171	DAF CELL 1	p-Xylene	106-42-3	0.4996	0.000057	8,760	7.19E-06	7.19E-06
70171	DAF CELL 1	Toluene	108-88-3	0.4724	0.000054	8,760	6.79E-06	6.79E-06
70174	BLK 4 FUGITIVES	Benzene	71-43-2	2.0044	0.000229	8,760	2.88E-05	2.88E-05
70174	BLK 4 FUGITIVES	Ethylene	74-85-1	23.5511	0.002688	8,760	3.39E-04	3.39E-04
70174	BLK 4 FUGITIVES	Naphthalene	91-20-3	5.9489	0.000679	8,760	8.56E-05	8.56E-05
70174	BLK 4 FUGITIVES	1,2,4-Trimethylbenzene	95-63-6	4.4530	0.000508	8,760	6.40E-05	6.40E-05
70174	BLK 4 FUGITIVES	Cumene	98-82-8	0.6469	0.000074	8,760	9.30E-06	9.30E-06
70174	BLK 4 FUGITIVES	Ethyl benzene	100-41-4	3.9317	0.000449	8,760	5.66E-05	5.66E-05
70174	BLK 4 FUGITIVES	Styrene	100-42-5	0.3994	0.000046	8,760	5.74E-06	5.74E-06
70174	BLK 4 FUGITIVES	1,3-Butadiene	106-99-0	0.4917	0.000056	8,760	7.07E-06	7.07E-06
70174	BLK 4 FUGITIVES	Toluene	108-88-3	7.1700	0.000818	8,760	1.03E-04	1.03E-04
70174	BLK 4 FUGITIVES	Phenol	108-95-2	0.0494	0.000006	8,760	7.10E-07	7.10E-07
70174	BLK 4 FUGITIVES	Hexane	110-54-3	32.7596	0.003740	8,760	4.71E-04	4.71E-04
70174	BLK 4 FUGITIVES	Cyclohexane	110-82-7	5.8687	0.000670	8,760	8.44E-05	8.44E-05
70174	BLK 4 FUGITIVES	Propylene	115-07-1	21.4006	0.002443	8,760	3.08E-04	3.08E-04
70174	BLK 4 FUGITIVES	Anthracene	120-12-7	0.0313	0.000004	8,760	4.50E-07	4.50E-07
70174	BLK 4 FUGITIVES	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	8,760	1.02E-09	1.02E-09

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70174	BLK 4 FUGITIVES	Cresol (mixed isomers)	1319-77-3	0.1466	0.000017	8,760	2.11E-06	2.11E-06
70174	BLK 4 FUGITIVES	Xylenes (mixed isomers)	1330-20-7	17.4900	0.001997	8,760	2.52E-04	2.52E-04
70174	BLK 4 FUGITIVES	Methyl tert-butyl ether	1634-04-4	0.4110	0.000047	8,760	5.91E-06	5.91E-06
70174	BLK 4 FUGITIVES	Hydrogen sulfide	7783-06-4	0.6342	0.000072	8,760	9.12E-06	9.12E-06
70176	BLK 6 FUGITIVES	Benzene	71-43-2	5.7820	0.000660	8,760	8.32E-05	8.32E-05
70176	BLK 6 FUGITIVES	Ethylene	74-85-1	0.4639	0.000053	8,760	6.67E-06	6.67E-06
70176	BLK 6 FUGITIVES	Naphthalene	91-20-3	10.8289	0.001236	8,760	1.56E-04	1.56E-04
70176	BLK 6 FUGITIVES	1,2,4-Trimethylbenzene	95-63-6	49.2237	0.005619	8,760	7.08E-04	7.08E-04
70176	BLK 6 FUGITIVES	Cumene	98-82-8	2.2523	0.000257	8,760	3.24E-05	3.24E-05
70176	BLK 6 FUGITIVES	Ethyl benzene	100-41-4	17.1975	0.001963	8,760	2.47E-04	2.47E-04
70176	BLK 6 FUGITIVES	Styrene	100-42-5	0.2836	0.000032	8,760	4.08E-06	4.08E-06
70176	BLK 6 FUGITIVES	1,3-Butadiene	106-99-0	0.1435	0.000016	8,760	2.06E-06	2.06E-06
70176	BLK 6 FUGITIVES	Toluene	108-88-3	36.0170	0.004112	8,760	5.18E-04	5.18E-04
70176	BLK 6 FUGITIVES	Phenol	108-95-2	0.0368	0.000004	8,760	5.29E-07	5.29E-07
70176	BLK 6 FUGITIVES	Hexane	110-54-3	59.4492	0.006786	8,760	8.55E-04	8.55E-04
70176	BLK 6 FUGITIVES	Cyclohexane	110-82-7	26.9557	0.003077	8,760	3.88E-04	3.88E-04
70176	BLK 6 FUGITIVES	Propylene	115-07-1	1.2076	0.000138	8,760	1.74E-05	1.74E-05
70176	BLK 6 FUGITIVES	Anthracene	120-12-7	0.0233	0.000003	8,760	3.35E-07	3.35E-07
70176	BLK 6 FUGITIVES	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	8,760	7.62E-10	7.62E-10
70176	BLK 6 FUGITIVES	Cresol (mixed isomers)	1319-77-3	0.1092	0.000012	8,760	1.57E-06	1.57E-06
70176	BLK 6 FUGITIVES	Xylenes (mixed isomers)	1330-20-7	91.4283	0.010437	8,760	1.32E-03	1.32E-03
70176	BLK 6 FUGITIVES	Methyl tert-butyl ether	1634-04-4	4.7325	0.000540	8,760	6.81E-05	6.81E-05
70176	BLK 6 FUGITIVES	Hydrogen sulfide	7783-06-4	0.0232	0.000003	8,760	3.34E-07	3.34E-07
70177	BLK 7 FUGITIVES	Benzene	71-43-2	0.3717	0.000042	8,760	5.35E-06	5.35E-06
70177	BLK 7 FUGITIVES	Ethylene	74-85-1	20.2750	0.002314	8,760	2.92E-04	2.92E-04
70177	BLK 7 FUGITIVES	Naphthalene	91-20-3	0.9907	0.000113	8,760	1.42E-05	1.42E-05
70177	BLK 7 FUGITIVES	Benzidine	92-87-5	0.0017	0.000000	8,760	2.51E-08	2.51E-08
70177	BLK 7 FUGITIVES	1,2,4-Trimethylbenzene	95-63-6	1.6258	0.000186	8,760	2.34E-05	2.34E-05
70177	BLK 7 FUGITIVES	Cumene	98-82-8	0.1451	0.000017	8,760	2.09E-06	2.09E-06
70177	BLK 7 FUGITIVES	Ethyl benzene	100-41-4	1.1276	0.000129	8,760	1.62E-05	1.62E-05
70177	BLK 7 FUGITIVES	Styrene	100-42-5	0.1149	0.000013	8,760	1.65E-06	1.65E-06
70177	BLK 7 FUGITIVES	1,3-Butadiene	106-99-0	0.1132	0.000013	8,760	1.63E-06	1.63E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70177	BLK 7 FUGITIVES	Toluene	108-88-3	3.0917	0.000353	8,760	4.45E-05	4.45E-05
70177	BLK 7 FUGITIVES	Phenol	108-95-2	0.0095	0.000001	8,760	1.36E-07	1.36E-07
70177	BLK 7 FUGITIVES	Hexane	110-54-3	5.7662	0.000658	8,760	8.29E-05	8.29E-05
70177	BLK 7 FUGITIVES	Cyclohexane	110-82-7	1.0874	0.000124	8,760	1.56E-05	1.56E-05
70177	BLK 7 FUGITIVES	Propylene	115-07-1	18.2564	0.002084	8,760	2.63E-04	2.63E-04
70177	BLK 7 FUGITIVES	Di(2-ethylhexyl) phthalate	117-81-7	0.0001	0.000000	8,760	1.97E-09	1.97E-09
70177	BLK 7 FUGITIVES	Anthracene	120-12-7	0.0443	0.000005	8,760	6.37E-07	6.37E-07
70177	BLK 7 FUGITIVES	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0048	0.000001	8,760	6.97E-08	6.97E-08
70177	BLK 7 FUGITIVES	Cresol (mixed isomers)	1319-77-3	0.0287	0.000003	8,760	4.13E-07	4.13E-07
70177	BLK 7 FUGITIVES	Xylenes (mixed isomers)	1330-20-7	5.2154	0.000595	8,760	7.50E-05	7.50E-05
70177	BLK 7 FUGITIVES	Methyl tert-butyl ether	1634-04-4	0.0911	0.000010	8,760	1.31E-06	1.31E-06
70177	BLK 7 FUGITIVES	Hydrogen sulfide	7783-06-4	0.2055	0.000023	8,760	2.96E-06	2.96E-06
70177	BLK 7 FUGITIVES	Dichlorobenzenes (mixed isomers)	25321-22-6	0.0008	0.000000	8,760	1.16E-08	1.16E-08
70181	BLK 14 FUGITIVES	Benzene	71-43-2	21.4672	0.002451	8,760	3.09E-04	3.09E-04
70181	BLK 14 FUGITIVES	Ethylene	74-85-1	14.8464	0.001695	8,760	2.14E-04	2.14E-04
70181	BLK 14 FUGITIVES	Naphthalene	91-20-3	49.2676	0.005624	8,760	7.09E-04	7.09E-04
70181	BLK 14 FUGITIVES	Benzidine	92-87-5	0.0141	0.000002	8,760	2.03E-07	2.03E-07
70181	BLK 14 FUGITIVES	1,2,4-Trimethylbenzene	95-63-6	123.7676	0.014129	8,760	1.78E-03	1.78E-03
70181	BLK 14 FUGITIVES	Cumene	98-82-8	7.7747	0.000888	8,760	1.12E-04	1.12E-04
70181	BLK 14 FUGITIVES	Ethyl benzene	100-41-4	76.0563	0.008682	8,760	1.09E-03	1.09E-03
70181	BLK 14 FUGITIVES	Styrene	100-42-5	3.8245	0.000437	8,760	5.50E-05	5.50E-05
70181	BLK 14 FUGITIVES	1,3-Butadiene	106-99-0	1.4716	0.000168	8,760	2.12E-05	2.12E-05
70181	BLK 14 FUGITIVES	Toluene	108-88-3	237.8231	0.027149	8,760	3.42E-03	3.42E-03
70181	BLK 14 FUGITIVES	Phenol	108-95-2	0.3340	0.000038	8,760	4.80E-06	4.80E-06
70181	BLK 14 FUGITIVES	Hexane	110-54-3	314.1444	0.035861	8,760	4.52E-03	4.52E-03
70181	BLK 14 FUGITIVES	Cyclohexane	110-82-7	35.9428	0.004103	8,760	5.17E-04	5.17E-04
70181	BLK 14 FUGITIVES	Propylene	115-07-1	18.6047	0.002124	8,760	2.68E-04	2.68E-04
70181	BLK 14 FUGITIVES	Di(2-ethylhexyl) phthalate	117-81-7	0.0011	0.000000	8,760	1.59E-08	1.59E-08
70181	BLK 14 FUGITIVES	Anthracene	120-12-7	0.5161	0.000059	8,760	7.42E-06	7.42E-06
70181	BLK 14 FUGITIVES	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0394	0.000005	8,760	5.67E-07	5.67E-07
70181	BLK 14 FUGITIVES	Cresol (mixed isomers)	1319-77-3	1.0143	0.000116	8,760	1.46E-05	1.46E-05
70181	BLK 14 FUGITIVES	Xylenes (mixed isomers)	1330-20-7	369.0160	0.042125	8,760	5.31E-03	5.31E-03

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70181	BLK 14 FUGITIVES	Methyl tert-butyl ether	1634-04-4	3.6290	0.000414	8,760	5.22E-05	5.22E-05
70181	BLK 14 FUGITIVES	Hydrogen sulfide	7783-06-4	1.8489	0.000211	8,760	2.66E-05	2.66E-05
70181	BLK 14 FUGITIVES	Dichlorobenzenes (mixed isomers)	25321-22-6	0.0065	0.000001	8,760	9.35E-08	9.35E-08
70182	BLK 15 FUGITIVES	Benzene	71-43-2	12.1871	0.001391	8,760	1.75E-04	1.75E-04
70182	BLK 15 FUGITIVES	Ethylene	74-85-1	5.3243	0.000608	8,760	7.66E-05	7.66E-05
70182	BLK 15 FUGITIVES	Naphthalene	91-20-3	0.8303	0.000095	8,760	1.19E-05	1.19E-05
70182	BLK 15 FUGITIVES	Biphenyl	92-52-4	0.1366	0.000016	8,760	1.97E-06	1.97E-06
70182	BLK 15 FUGITIVES	1,2,4-Trimethylbenzene	95-63-6	1.6645	0.000190	8,760	2.39E-05	2.39E-05
70182	BLK 15 FUGITIVES	Cumene	98-82-8	0.1085	0.000012	8,760	1.56E-06	1.56E-06
70182	BLK 15 FUGITIVES	Ethyl benzene	100-41-4	1.5238	0.000174	8,760	2.19E-05	2.19E-05
70182	BLK 15 FUGITIVES	Styrene	100-42-5	0.0353	0.000004	8,760	5.07E-07	5.07E-07
70182	BLK 15 FUGITIVES	1,3-Butadiene	106-99-0	0.1210	0.000014	8,760	1.74E-06	1.74E-06
70182	BLK 15 FUGITIVES	Toluene	108-88-3	6.7184	0.000767	8,760	9.66E-05	9.66E-05
70182	BLK 15 FUGITIVES	Phenol	108-95-2	0.0046	0.000001	8,760	6.62E-08	6.62E-08
70182	BLK 15 FUGITIVES	Hexane	110-54-3	12.0455	0.001375	8,760	1.73E-04	1.73E-04
70182	BLK 15 FUGITIVES	Cyclohexane	110-82-7	0.9176	0.000105	8,760	1.32E-05	1.32E-05
70182	BLK 15 FUGITIVES	Propylene	115-07-1	6.9523	0.000794	8,760	1.00E-04	1.00E-04
70182	BLK 15 FUGITIVES	Anthracene	120-12-7	0.0029	0.000000	8,760	4.19E-08	4.19E-08
70182	BLK 15 FUGITIVES	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0000	0.000000	8,760	9.53E-11	9.53E-11
70182	BLK 15 FUGITIVES	Cresol (mixed isomers)	1319-77-3	0.0137	0.000002	8,760	1.96E-07	1.96E-07
70182	BLK 15 FUGITIVES	Xylenes (mixed isomers)	1330-20-7	3.3918	0.000387	8,760	4.88E-05	4.88E-05
70182	BLK 15 FUGITIVES	Methyl tert-butyl ether	1634-04-4	0.1589	0.000018	8,760	2.29E-06	2.29E-06
70182	BLK 15 FUGITIVES	Hydrogen sulfide	7783-06-4	0.0001	0.000000	8,760	1.56E-09	1.56E-09
70190	BLK 26 FUGITIVES	Benzene	71-43-2	0.6667	0.000076	8,760	9.59E-06	9.59E-06
70190	BLK 26 FUGITIVES	Ethylene	74-85-1	12.7794	0.001459	8,760	1.84E-04	1.84E-04
70190	BLK 26 FUGITIVES	Naphthalene	91-20-3	2.3724	0.000271	8,760	3.41E-05	3.41E-05
70190	BLK 26 FUGITIVES	1,2,4-Trimethylbenzene	95-63-6	4.6574	0.000532	8,760	6.70E-05	6.70E-05
70190	BLK 26 FUGITIVES	Cumene	98-82-8	0.3329	0.000038	8,760	4.79E-06	4.79E-06
70190	BLK 26 FUGITIVES	Ethyl benzene	100-41-4	1.9715	0.000225	8,760	2.84E-05	2.84E-05
70190	BLK 26 FUGITIVES	Styrene	100-42-5	0.1643	0.000019	8,760	2.36E-06	2.36E-06
70190	BLK 26 FUGITIVES	1,3-Butadiene	106-99-0	0.5933	0.000068	8,760	8.53E-06	8.53E-06
70190	BLK 26 FUGITIVES	Toluene	108-88-3	3.3960	0.000388	8,760	4.88E-05	4.88E-05

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70190	BLK 26 FUGITIVES	Phenol	108-95-2	0.0160	0.000002	8,760	2.30E-07	2.30E-07
70190	BLK 26 FUGITIVES	Hexane	110-54-3	10.5598	0.001205	8,760	1.52E-04	1.52E-04
70190	BLK 26 FUGITIVES	Cyclohexane	110-82-7	2.5608	0.000292	8,760	3.68E-05	3.68E-05
70190	BLK 26 FUGITIVES	Propylene	115-07-1	25.1722	0.002874	8,760	3.62E-04	3.62E-04
70190	BLK 26 FUGITIVES	Anthracene	120-12-7	0.0102	0.000001	8,760	1.46E-07	1.46E-07
70190	BLK 26 FUGITIVES	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0000	0.000000	8,760	3.32E-10	3.32E-10
70190	BLK 26 FUGITIVES	Cresol (mixed isomers)	1319-77-3	0.0476	0.000005	8,760	6.84E-07	6.84E-07
70190	BLK 26 FUGITIVES	Xylenes (mixed isomers)	1330-20-7	9.8329	0.001122	8,760	1.41E-04	1.41E-04
70190	BLK 26 FUGITIVES	Methyl tert-butyl ether	1634-04-4	0.4411	0.000050	8,760	6.34E-06	6.34E-06
70190	BLK 26 FUGITIVES	Hydrogen sulfide	7783-06-4	0.4779	0.000055	8,760	6.87E-06	6.87E-06
70192	BLK 31 FUGITIVES	Benzene	71-43-2	0.8817	0.000101	8,760	1.27E-05	1.27E-05
70192	BLK 31 FUGITIVES	Ethylene	74-85-1	39.7800	0.004541	8,760	5.72E-04	5.72E-04
70192	BLK 31 FUGITIVES	Naphthalene	91-20-3	3.7569	0.000429	8,760	5.40E-05	5.40E-05
70192	BLK 31 FUGITIVES	1,2,4-Trimethylbenzene	95-63-6	5.5748	0.000636	8,760	8.02E-05	8.02E-05
70192	BLK 31 FUGITIVES	Cumene	98-82-8	0.4806	0.000055	8,760	6.91E-06	6.91E-06
70192	BLK 31 FUGITIVES	Ethyl benzene	100-41-4	2.5784	0.000294	8,760	3.71E-05	3.71E-05
70192	BLK 31 FUGITIVES	Styrene	100-42-5	0.2474	0.000028	8,760	3.56E-06	3.56E-06
70192	BLK 31 FUGITIVES	1,3-Butadiene	106-99-0	0.2541	0.000029	8,760	3.65E-06	3.65E-06
70192	BLK 31 FUGITIVES	Toluene	108-88-3	4.1043	0.000469	8,760	5.90E-05	5.90E-05
70192	BLK 31 FUGITIVES	Phenol	108-95-2	0.0277	0.000003	8,760	3.98E-07	3.98E-07
70192	BLK 31 FUGITIVES	Hexane	110-54-3	16.0537	0.001833	8,760	2.31E-04	2.31E-04
70192	BLK 31 FUGITIVES	Cyclohexane	110-82-7	3.0846	0.000352	8,760	4.44E-05	4.44E-05
70192	BLK 31 FUGITIVES	Propylene	115-07-1	35.8500	0.004092	8,760	5.16E-04	5.16E-04
70192	BLK 31 FUGITIVES	Anthracene	120-12-7	0.0175	0.000002	8,760	2.52E-07	2.52E-07
70192	BLK 31 FUGITIVES	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0000	0.000000	8,760	5.74E-10	5.74E-10
70192	BLK 31 FUGITIVES	Cresol (mixed isomers)	1319-77-3	0.0822	0.000009	8,760	1.18E-06	1.18E-06
70192	BLK 31 FUGITIVES	Xylenes (mixed isomers)	1330-20-7	12.5924	0.001437	8,760	1.81E-04	1.81E-04
70192	BLK 31 FUGITIVES	Methyl tert-butyl ether	1634-04-4	0.5256	0.000060	8,760	7.56E-06	7.56E-06
70192	BLK 31 FUGITIVES	Hydrogen sulfide	7783-06-4	0.0010	0.000000	8,760	1.50E-08	1.50E-08
70194	BLK 33 FUGITIVES	Benzene	71-43-2	9.4075	0.001074	8,760	1.35E-04	1.35E-04
70194	BLK 33 FUGITIVES	Ethylene	74-85-1	74.3271	0.008485	8,760	1.07E-03	1.07E-03
70194	BLK 33 FUGITIVES	Naphthalene	91-20-3	26.7019	0.003048	8,760	3.84E-04	3.84E-04

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70194	BLK 33 FUGITIVES	Benzidine	92-87-5	0.0061	0.000001	8,760	8.75E-08	8.75E-08
70194	BLK 33 FUGITIVES	1,2,4-Trimethylbenzene	95-63-6	45.9462	0.005245	8,760	6.61E-04	6.61E-04
70194	BLK 33 FUGITIVES	Cumene	98-82-8	3.1260	0.000357	8,760	4.50E-05	4.50E-05
70194	BLK 33 FUGITIVES	Ethyl benzene	100-41-4	34.5965	0.003949	8,760	4.98E-04	4.98E-04
70194	BLK 33 FUGITIVES	Styrene	100-42-5	1.3836	0.000158	8,760	1.99E-05	1.99E-05
70194	BLK 33 FUGITIVES	1,3-Butadiene	106-99-0	1.8898	0.000216	8,760	2.72E-05	2.72E-05
70194	BLK 33 FUGITIVES	Toluene	108-88-3	101.3803	0.011573	8,760	1.46E-03	1.46E-03
70194	BLK 33 FUGITIVES	Phenol	108-95-2	0.1600	0.000018	8,760	2.30E-06	2.30E-06
70194	BLK 33 FUGITIVES	Hexane	110-54-3	106.4982	0.012157	8,760	1.53E-03	1.53E-03
70194	BLK 33 FUGITIVES	Cyclohexane	110-82-7	18.2701	0.002086	8,760	2.63E-04	2.63E-04
70194	BLK 33 FUGITIVES	Propylene	115-07-1	67.7991	0.007740	8,760	9.75E-04	9.75E-04
70194	BLK 33 FUGITIVES	Di(2-ethylhexyl) phthalate	117-81-7	0.0005	0.000000	8,760	6.86E-09	6.86E-09
70194	BLK 33 FUGITIVES	Anthracene	120-12-7	0.2345	0.000027	8,760	3.37E-06	3.37E-06
70194	BLK 33 FUGITIVES	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0171	0.000002	8,760	2.45E-07	2.45E-07
70194	BLK 33 FUGITIVES	Cresol (mixed isomers)	1319-77-3	0.4772	0.000054	8,760	6.86E-06	6.86E-06
70194	BLK 33 FUGITIVES	Xylenes (mixed isomers)	1330-20-7	168.7748	0.019267	8,760	2.43E-03	2.43E-03
70194	BLK 33 FUGITIVES	Methyl tert-butyl ether	1634-04-4	1.3814	0.000158	8,760	1.99E-05	1.99E-05
70194	BLK 33 FUGITIVES	Hydrogen sulfide	7783-06-4	3.6117	0.000412	8,760	5.19E-05	5.19E-05
70194	BLK 33 FUGITIVES	Dichlorobenzenes (mixed isomers)	25321-22-6	0.0028	0.000000	8,760	4.04E-08	4.04E-08
70195	BLK 34 FUGITIVES	Benzene	71-43-2	21.6830	0.002475	8,760	3.12E-04	3.12E-04
70195	BLK 34 FUGITIVES	Ethylene	74-85-1	246.9647	0.028192	8,760	3.55E-03	3.55E-03
70195	BLK 34 FUGITIVES	Naphthalene	91-20-3	30.7246	0.003507	8,760	4.42E-04	4.42E-04
70195	BLK 34 FUGITIVES	1,2,4-Trimethylbenzene	95-63-6	68.1117	0.007775	8,760	9.80E-04	9.80E-04
70195	BLK 34 FUGITIVES	Cumene	98-82-8	4.2326	0.000483	8,760	6.09E-05	6.09E-05
70195	BLK 34 FUGITIVES	Ethyl benzene	100-41-4	53.6855	0.006128	8,760	7.72E-04	7.72E-04
70195	BLK 34 FUGITIVES	Styrene	100-42-5	1.8157	0.000207	8,760	2.61E-05	2.61E-05
70195	BLK 34 FUGITIVES	1,3-Butadiene	106-99-0	1.7747	0.000203	8,760	2.55E-05	2.55E-05
70195	BLK 34 FUGITIVES	Toluene	108-88-3	160.8549	0.018362	8,760	2.31E-03	2.31E-03
70195	BLK 34 FUGITIVES	Phenol	108-95-2	0.1965	0.000022	8,760	2.83E-06	2.83E-06
70195	BLK 34 FUGITIVES	Hexane	110-54-3	147.9789	0.016893	8,760	2.13E-03	2.13E-03
70195	BLK 34 FUGITIVES	Cyclohexane	110-82-7	27.7086	0.003163	8,760	3.99E-04	3.99E-04
70195	BLK 34 FUGITIVES	Propylene	115-07-1	222.4801	0.025397	8,760	3.20E-03	3.20E-03

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70195	BLK 34 FUGITIVES	Anthracene	120-12-7	0.1226	0.000014	8,760	1.76E-06	1.76E-06
70195	BLK 34 FUGITIVES	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0003	0.000000	8,760	4.01E-09	4.01E-09
70195	BLK 34 FUGITIVES	Cresol (mixed isomers)	1319-77-3	0.5834	0.000067	8,760	8.39E-06	8.39E-06
70195	BLK 34 FUGITIVES	Xylenes (mixed isomers)	1330-20-7	258.4440	0.029503	8,760	3.72E-03	3.72E-03
70195	BLK 34 FUGITIVES	Methyl tert-butyl ether	1634-04-4	1.7235	0.000197	8,760	2.48E-05	2.48E-05
70195	BLK 34 FUGITIVES	Hydrogen sulfide	7783-06-4	0.2686	0.000031	8,760	3.86E-06	3.86E-06
70196	BLK 35 FUGITIVES	Benzene	71-43-2	3.0269	0.000346	8,760	4.35E-05	4.35E-05
70196	BLK 35 FUGITIVES	Ethylene	74-85-1	136.7347	0.015609	8,760	1.97E-03	1.97E-03
70196	BLK 35 FUGITIVES	Naphthalene	91-20-3	19.2490	0.002197	8,760	2.77E-04	2.77E-04
70196	BLK 35 FUGITIVES	1,2,4-Trimethylbenzene	95-63-6	34.0958	0.003892	8,760	4.90E-04	4.90E-04
70196	BLK 35 FUGITIVES	Cumene	98-82-8	3.2846	0.000375	8,760	4.72E-05	4.72E-05
70196	BLK 35 FUGITIVES	Ethyl benzene	100-41-4	34.3790	0.003925	8,760	4.94E-04	4.94E-04
70196	BLK 35 FUGITIVES	Styrene	100-42-5	2.9980	0.000342	8,760	4.31E-05	4.31E-05
70196	BLK 35 FUGITIVES	1,3-Butadiene	106-99-0	6.5105	0.000743	8,760	9.36E-05	9.36E-05
70196	BLK 35 FUGITIVES	Toluene	108-88-3	71.3761	0.008148	8,760	1.03E-03	1.03E-03
70196	BLK 35 FUGITIVES	Phenol	108-95-2	0.1453	0.000017	8,760	2.09E-06	2.09E-06
70196	BLK 35 FUGITIVES	Hexane	110-54-3	67.7740	0.007737	8,760	9.75E-04	9.75E-04
70196	BLK 35 FUGITIVES	Cyclohexane	110-82-7	7.7436	0.000884	8,760	1.11E-04	1.11E-04
70196	BLK 35 FUGITIVES	Propylene	115-07-1	269.1905	0.030730	8,760	3.87E-03	3.87E-03
70196	BLK 35 FUGITIVES	Anthracene	120-12-7	0.0892	0.000010	8,760	1.28E-06	1.28E-06
70196	BLK 35 FUGITIVES	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0002	0.000000	8,760	2.90E-09	2.90E-09
70196	BLK 35 FUGITIVES	Cresol (mixed isomers)	1319-77-3	0.4314	0.000049	8,760	6.20E-06	6.20E-06
70196	BLK 35 FUGITIVES	Xylenes (mixed isomers)	1330-20-7	139.7361	0.015952	8,760	2.01E-03	2.01E-03
70196	BLK 35 FUGITIVES	Methyl tert-butyl ether	1634-04-4	1.4043	0.000160	8,760	2.02E-05	2.02E-05
70196	BLK 35 FUGITIVES	Hydrogen sulfide	7783-06-4	5.6872	0.000649	8,760	8.18E-05	8.18E-05
70197	BLK 36 FUGITIVES	Benzene	71-43-2	0.9926	0.000113	8,760	1.43E-05	1.43E-05
70197	BLK 36 FUGITIVES	Ethylene	74-85-1	55.9803	0.006390	8,760	8.05E-04	8.05E-04
70197	BLK 36 FUGITIVES	Naphthalene	91-20-3	3.6322	0.000415	8,760	5.22E-05	5.22E-05
70197	BLK 36 FUGITIVES	1,2,4-Trimethylbenzene	95-63-6	6.5438	0.000747	8,760	9.41E-05	9.41E-05
70197	BLK 36 FUGITIVES	Cumene	98-82-8	0.4945	0.000056	8,760	7.11E-06	7.11E-06
70197	BLK 36 FUGITIVES	Ethyl benzene	100-41-4	2.8396	0.000324	8,760	4.08E-05	4.08E-05
70197	BLK 36 FUGITIVES	Styrene	100-42-5	0.2435	0.000028	8,760	3.50E-06	3.50E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70197	BLK 36 FUGITIVES	1,3-Butadiene	106-99-0	0.3110	0.000036	8,760	4.47E-06	4.47E-06
70197	BLK 36 FUGITIVES	Toluene	108-88-3	4.8731	0.000556	8,760	7.01E-05	7.01E-05
70197	BLK 36 FUGITIVES	Phenol	108-95-2	0.0253	0.000003	8,760	3.64E-07	3.64E-07
70197	BLK 36 FUGITIVES	Hexane	110-54-3	16.0380	0.001831	8,760	2.31E-04	2.31E-04
70197	BLK 36 FUGITIVES	Cyclohexane	110-82-7	3.6051	0.000412	8,760	5.19E-05	5.19E-05
70197	BLK 36 FUGITIVES	Propylene	115-07-1	50.4445	0.005759	8,760	7.26E-04	7.26E-04
70197	BLK 36 FUGITIVES	Anthracene	120-12-7	0.0160	0.000002	8,760	2.31E-07	2.31E-07
70197	BLK 36 FUGITIVES	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0000	0.000000	8,760	5.24E-10	5.24E-10
70197	BLK 36 FUGITIVES	Cresol (mixed isomers)	1319-77-3	0.0750	0.000009	8,760	1.08E-06	1.08E-06
70197	BLK 36 FUGITIVES	Xylenes (mixed isomers)	1330-20-7	14.1676	0.001617	8,760	2.04E-04	2.04E-04
70197	BLK 36 FUGITIVES	Methyl tert-butyl ether	1634-04-4	0.6189	0.000071	8,760	8.90E-06	8.90E-06
70197	BLK 36 FUGITIVES	Hydrogen sulfide	7783-06-4	0.0011	0.000000	8,760	1.65E-08	1.65E-08
70198	BLK 37 FUGITIVES	Benzene	71-43-2	14.2038	0.001621	8,760	2.04E-04	2.04E-04
70198	BLK 37 FUGITIVES	Ethylene	74-85-1	0.8274	0.000094	8,760	1.19E-05	1.19E-05
70198	BLK 37 FUGITIVES	Naphthalene	91-20-3	38.9437	0.004446	8,760	5.60E-04	5.60E-04
70198	BLK 37 FUGITIVES	Benzidine	92-87-5	0.0002	0.000000	8,760	3.22E-09	3.22E-09
70198	BLK 37 FUGITIVES	1,2,4-Trimethylbenzene	95-63-6	21.0843	0.002407	8,760	3.03E-04	3.03E-04
70198	BLK 37 FUGITIVES	Cumene	98-82-8	2.6640	0.000304	8,760	3.83E-05	3.83E-05
70198	BLK 37 FUGITIVES	Ethyl benzene	100-41-4	30.6865	0.003503	8,760	4.41E-04	4.41E-04
70198	BLK 37 FUGITIVES	Styrene	100-42-5	1.7764	0.000203	8,760	2.56E-05	2.56E-05
70198	BLK 37 FUGITIVES	1,3-Butadiene	106-99-0	2.4140	0.000276	8,760	3.47E-05	3.47E-05
70198	BLK 37 FUGITIVES	Toluene	108-88-3	78.0212	0.008907	8,760	1.12E-03	1.12E-03
70198	BLK 37 FUGITIVES	Phenol	108-95-2	0.1834	0.000021	8,760	2.64E-06	2.64E-06
70198	BLK 37 FUGITIVES	Hexane	110-54-3	356.7409	0.040724	8,760	5.13E-03	5.13E-03
70198	BLK 37 FUGITIVES	Cyclohexane	110-82-7	12.2574	0.001399	8,760	1.76E-04	1.76E-04
70198	BLK 37 FUGITIVES	Propylene	115-07-1	31.8650	0.003638	8,760	4.58E-04	4.58E-04
70198	BLK 37 FUGITIVES	Di(2-ethylhexyl) phthalate	117-81-7	0.0000	0.000000	8,760	2.52E-10	2.52E-10
70198	BLK 37 FUGITIVES	Anthracene	120-12-7	0.1172	0.000013	8,760	1.69E-06	1.69E-06
70198	BLK 37 FUGITIVES	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0009	0.000000	8,760	1.25E-08	1.25E-08
70198	BLK 37 FUGITIVES	Cresol (mixed isomers)	1319-77-3	0.5875	0.000067	8,760	8.45E-06	8.45E-06
70198	BLK 37 FUGITIVES	Xylenes (mixed isomers)	1330-20-7	156.7923	0.017899	8,760	2.26E-03	2.26E-03
70198	BLK 37 FUGITIVES	Methyl tert-butyl ether	1634-04-4	1.8221	0.000208	8,760	2.62E-05	2.62E-05

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70198	BLK 37 FUGITIVES	Hydrogen sulfide	7783-06-4	2.8108	0.000321	8,760	4.04E-05	4.04E-05
70198	BLK 37 FUGITIVES	Dichlorobenzenes (mixed isomers)	25321-22-6	0.0001	0.000000	8,760	1.49E-09	1.49E-09
70201	BLK 43 FUGITIVES	Benzene	71-43-2	4.8454	0.000553	8,760	6.97E-05	6.97E-05
70201	BLK 43 FUGITIVES	Ethylene	74-85-1	119.1380	0.013600	8,760	1.71E-03	1.71E-03
70201	BLK 43 FUGITIVES	Naphthalene	91-20-3	19.8348	0.002264	8,760	2.85E-04	2.85E-04
70201	BLK 43 FUGITIVES	Benzidine	92-87-5	0.0026	0.000000	8,760	3.78E-08	3.78E-08
70201	BLK 43 FUGITIVES	1,2,4-Trimethylbenzene	95-63-6	14.8603	0.001696	8,760	2.14E-04	2.14E-04
70201	BLK 43 FUGITIVES	Cumene	98-82-8	2.0445	0.000233	8,760	2.94E-05	2.94E-05
70201	BLK 43 FUGITIVES	Ethyl benzene	100-41-4	11.6801	0.001333	8,760	1.68E-04	1.68E-04
70201	BLK 43 FUGITIVES	Styrene	100-42-5	1.3319	0.000152	8,760	1.92E-05	1.92E-05
70201	BLK 43 FUGITIVES	1,3-Butadiene	106-99-0	1.6359	0.000187	8,760	2.35E-05	2.35E-05
70201	BLK 43 FUGITIVES	Toluene	108-88-3	19.0789	0.002178	8,760	2.74E-04	2.74E-04
70201	BLK 43 FUGITIVES	Phenol	108-95-2	0.1544	0.000018	8,760	2.22E-06	2.22E-06
70201	BLK 43 FUGITIVES	Hexane	110-54-3	100.9859	0.011528	8,760	1.45E-03	1.45E-03
70201	BLK 43 FUGITIVES	Cyclohexane	110-82-7	38.0022	0.004338	8,760	5.47E-04	5.47E-04
70201	BLK 43 FUGITIVES	Propylene	115-07-1	107.7879	0.012305	8,760	1.55E-03	1.55E-03
70201	BLK 43 FUGITIVES	Di(2-ethylhexyl) phthalate	117-81-7	0.0002	0.000000	8,760	2.97E-09	2.97E-09
70201	BLK 43 FUGITIVES	Anthracene	120-12-7	0.1536	0.000018	8,760	2.21E-06	2.21E-06
70201	BLK 43 FUGITIVES	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0075	0.000001	8,760	1.08E-07	1.08E-07
70201	BLK 43 FUGITIVES	Cresol (mixed isomers)	1319-77-3	0.4592	0.000052	8,760	6.61E-06	6.61E-06
70201	BLK 43 FUGITIVES	Xylenes (mixed isomers)	1330-20-7	54.5317	0.006225	8,760	7.84E-04	7.84E-04
70201	BLK 43 FUGITIVES	Methyl tert-butyl ether	1634-04-4	1.3079	0.000149	8,760	1.88E-05	1.88E-05
70201	BLK 43 FUGITIVES	Hydrogen sulfide	7783-06-4	1.9699	0.000225	8,760	2.83E-05	2.83E-05
70201	BLK 43 FUGITIVES	Dichlorobenzenes (mixed isomers)	25321-22-6	0.0012	0.000000	8,760	1.75E-08	1.75E-08
70203	BLK 45 FUGITIVES	Benzene	71-43-2	9.0720	0.001036	8,760	1.30E-04	1.30E-04
70203	BLK 45 FUGITIVES	Ethylene	74-85-1	27.7584	0.003169	8,760	3.99E-04	3.99E-04
70203	BLK 45 FUGITIVES	Naphthalene	91-20-3	43.1766	0.004929	8,760	6.21E-04	6.21E-04
70203	BLK 45 FUGITIVES	Benzidine	92-87-5	0.0199	0.000002	8,760	2.86E-07	2.86E-07
70203	BLK 45 FUGITIVES	1,2,4-Trimethylbenzene	95-63-6	43.2084	0.004932	8,760	6.21E-04	6.21E-04
70203	BLK 45 FUGITIVES	Cumene	98-82-8	5.1249	0.000585	8,760	7.37E-05	7.37E-05
70203	BLK 45 FUGITIVES	Ethyl benzene	100-41-4	28.3273	0.003234	8,760	4.07E-04	4.07E-04
70203	BLK 45 FUGITIVES	Styrene	100-42-5	3.7777	0.000431	8,760	5.43E-05	5.43E-05

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70203	BLK 45 FUGITIVES	1,3-Butadiene	106-99-0	10.9501	0.001250	8,760	1.57E-04	1.57E-04
70203	BLK 45 FUGITIVES	Toluene	108-88-3	53.3703	0.006092	8,760	7.68E-04	7.68E-04
70203	BLK 45 FUGITIVES	Phenol	108-95-2	0.3728	0.000043	8,760	5.36E-06	5.36E-06
70203	BLK 45 FUGITIVES	Hexane	110-54-3	191.7286	0.021887	8,760	2.76E-03	2.76E-03
70203	BLK 45 FUGITIVES	Cyclohexane	110-82-7	26.0925	0.002979	8,760	3.75E-04	3.75E-04
70203	BLK 45 FUGITIVES	Propylene	115-07-1	285.4868	0.032590	8,760	4.11E-03	4.11E-03
70203	BLK 45 FUGITIVES	Di(2-ethylhexyl) phthalate	117-81-7	0.0016	0.000000	8,760	2.25E-08	2.25E-08
70203	BLK 45 FUGITIVES	Anthracene	120-12-7	0.6722	0.000077	8,760	9.67E-06	9.67E-06
70203	BLK 45 FUGITIVES	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0556	0.000006	8,760	8.00E-07	8.00E-07
70203	BLK 45 FUGITIVES	Cresol (mixed isomers)	1319-77-3	1.1139	0.000127	8,760	1.60E-05	1.60E-05
70203	BLK 45 FUGITIVES	Xylenes (mixed isomers)	1330-20-7	128.4149	0.014659	8,760	1.85E-03	1.85E-03
70203	BLK 45 FUGITIVES	Methyl tert-butyl ether	1634-04-4	3.2440	0.000370	8,760	4.67E-05	4.67E-05
70203	BLK 45 FUGITIVES	Hydrogen sulfide	7783-06-4	12.2114	0.001394	8,760	1.76E-04	1.76E-04
70203	BLK 45 FUGITIVES	Dichlorobenzenes (mixed isomers)	25321-22-6	0.0092	0.000001	8,760	1.32E-07	1.32E-07
70204	BLK 46 FUGITIVES	Benzene	71-43-2	0.1085	0.000012	8,760	1.56E-06	1.56E-06
70204	BLK 46 FUGITIVES	Ethylene	74-85-1	42.2992	0.004829	8,760	6.08E-04	6.08E-04
70204	BLK 46 FUGITIVES	Naphthalene	91-20-3	0.3572	0.000041	8,760	5.14E-06	5.14E-06
70204	BLK 46 FUGITIVES	1,2,4-Trimethylbenzene	95-63-6	0.2920	0.000033	8,760	4.20E-06	4.20E-06
70204	BLK 46 FUGITIVES	Cumene	98-82-8	0.0389	0.000004	8,760	5.59E-07	5.59E-07
70204	BLK 46 FUGITIVES	Ethyl benzene	100-41-4	0.1870	0.000021	8,760	2.69E-06	2.69E-06
70204	BLK 46 FUGITIVES	Styrene	100-42-5	0.0603	0.000007	8,760	8.68E-07	8.68E-07
70204	BLK 46 FUGITIVES	1,3-Butadiene	106-99-0	0.1801	0.000021	8,760	2.59E-06	2.59E-06
70204	BLK 46 FUGITIVES	Toluene	108-88-3	0.3273	0.000037	8,760	4.71E-06	4.71E-06
70204	BLK 46 FUGITIVES	Phenol	108-95-2	0.0030	0.000000	8,760	4.27E-08	4.27E-08
70204	BLK 46 FUGITIVES	Hexane	110-54-3	1.5344	0.000175	8,760	2.21E-05	2.21E-05
70204	BLK 46 FUGITIVES	Cyclohexane	110-82-7	0.1533	0.000017	8,760	2.20E-06	2.20E-06
70204	BLK 46 FUGITIVES	Propylene	115-07-1	38.0820	0.004347	8,760	5.48E-04	5.48E-04
70204	BLK 46 FUGITIVES	Anthracene	120-12-7	0.0019	0.000000	8,760	2.71E-08	2.71E-08
70204	BLK 46 FUGITIVES	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0000	0.000000	8,760	6.15E-11	6.15E-11
70204	BLK 46 FUGITIVES	Cresol (mixed isomers)	1319-77-3	0.0088	0.000001	8,760	1.27E-07	1.27E-07
70204	BLK 46 FUGITIVES	Xylenes (mixed isomers)	1330-20-7	0.9315	0.000106	8,760	1.34E-05	1.34E-05
70204	BLK 46 FUGITIVES	Methyl tert-butyl ether	1634-04-4	0.0247	0.000003	8,760	3.55E-07	3.55E-07

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70204	BLK 46 FUGITIVES	Hydrogen sulfide	7783-06-4	0.0005	0.000000	8,760	7.01E-09	7.01E-09
70222	BLK 76 FUGITIVES	Benzene	71-43-2	1.3462	0.000154	8,760	1.94E-05	1.94E-05
70222	BLK 76 FUGITIVES	Ethylene	74-85-1	0.2330	0.000027	8,760	3.35E-06	3.35E-06
70222	BLK 76 FUGITIVES	Naphthalene	91-20-3	5.3481	0.000611	8,760	7.69E-05	7.69E-05
70222	BLK 76 FUGITIVES	1,2,4-Trimethylbenzene	95-63-6	9.5314	0.001088	8,760	1.37E-04	1.37E-04
70222	BLK 76 FUGITIVES	Cumene	98-82-8	0.7267	0.000083	8,760	1.05E-05	1.05E-05
70222	BLK 76 FUGITIVES	Ethyl benzene	100-41-4	4.1241	0.000471	8,760	5.93E-05	5.93E-05
70222	BLK 76 FUGITIVES	Styrene	100-42-5	0.2859	0.000033	8,760	4.11E-06	4.11E-06
70222	BLK 76 FUGITIVES	1,3-Butadiene	106-99-0	0.6550	0.000075	8,760	9.42E-06	9.42E-06
70222	BLK 76 FUGITIVES	Toluene	108-88-3	6.8566	0.000783	8,760	9.86E-05	9.86E-05
70222	BLK 76 FUGITIVES	Phenol	108-95-2	0.0373	0.000004	8,760	5.36E-07	5.36E-07
70222	BLK 76 FUGITIVES	Hexane	110-54-3	23.3667	0.002667	8,760	3.36E-04	3.36E-04
70222	BLK 76 FUGITIVES	Cyclohexane	110-82-7	5.2743	0.000602	8,760	7.59E-05	7.59E-05
70222	BLK 76 FUGITIVES	Propylene	115-07-1	0.6955	0.000079	8,760	1.00E-05	1.00E-05
70222	BLK 76 FUGITIVES	Anthracene	120-12-7	0.0236	0.000003	8,760	3.40E-07	3.40E-07
70222	BLK 76 FUGITIVES	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	8,760	7.73E-10	7.73E-10
70222	BLK 76 FUGITIVES	Cresol (mixed isomers)	1319-77-3	0.1107	0.000013	8,760	1.59E-06	1.59E-06
70222	BLK 76 FUGITIVES	Xylenes (mixed isomers)	1330-20-7	20.4027	0.002329	8,760	2.93E-04	2.93E-04
70222	BLK 76 FUGITIVES	Methyl tert-butyl ether	1634-04-4	0.9060	0.000103	8,760	1.30E-05	1.30E-05
70222	BLK 76 FUGITIVES	Hydrogen sulfide	7783-06-4	1.4580	0.000166	8,760	2.10E-05	2.10E-05
70227	GASOLINE DISPENSING	Benzene	71-43-2	1.2719	0.000611	2,080	1.83E-05	7.70E-05
70227	GASOLINE DISPENSING	Naphthalene	91-20-3	0.0006	0.000000	2,080	8.79E-09	3.70E-08
70227	GASOLINE DISPENSING	1,2,4-Trimethylbenzene	95-63-6	0.0576	0.000028	2,080	8.28E-07	3.49E-06
70227	GASOLINE DISPENSING	Ethyl benzene	100-41-4	0.2209	0.000106	2,080	3.18E-06	1.34E-05
70227	GASOLINE DISPENSING	1,3-Butadiene	106-99-0	0.4888	0.000235	2,080	7.03E-06	2.96E-05
70227	GASOLINE DISPENSING	Toluene	108-88-3	2.8331	0.001362	2,080	4.07E-05	1.72E-04
70227	GASOLINE DISPENSING	Hexane	110-54-3	4.0564	0.001950	2,080	5.83E-05	2.46E-04
70227	GASOLINE DISPENSING	Cyclohexane	110-82-7	1.5182	0.000730	2,080	2.18E-05	9.20E-05
70227	GASOLINE DISPENSING	Xylenes (mixed isomers)	1330-20-7	0.9264	0.000445	2,080	1.33E-05	5.61E-05
70228	DIESEL DISPENSING	Benzene	71-43-2	0.2452	0.000118	2,080	3.53E-06	1.49E-05
70228	DIESEL DISPENSING	Naphthalene	91-20-3	0.0149	0.000007	2,080	2.14E-07	9.00E-07
70228	DIESEL DISPENSING	1,2,4-Trimethylbenzene	95-63-6	0.1754	0.000084	2,080	2.52E-06	1.06E-05

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70228	DIESEL DISPENSING	Ethyl benzene	100-41-4	0.1093	0.000053	2,080	1.57E-06	6.62E-06
70228	DIESEL DISPENSING	Toluene	108-88-3	0.2460	0.000118	2,080	3.54E-06	1.49E-05
70228	DIESEL DISPENSING	Phenol	108-95-2	0.0005	0.000000	2,080	6.74E-09	2.84E-08
70228	DIESEL DISPENSING	Cresol (mixed isomers)	1319-77-3	0.0002	0.000000	2,080	2.67E-09	1.13E-08
70228	DIESEL DISPENSING	Xylenes (mixed isomers)	1330-20-7	0.4787	0.000230	2,080	6.88E-06	2.90E-05
70228	DIESEL DISPENSING	Hydrogen sulfide	7783-06-4	0.6307	0.000303	2,080	9.07E-06	3.82E-05
70229	FLARE - SOUTH HRRS	Lead compounds	1128	0.1002	0.000011	8,760	1.44E-06	1.44E-06
70229	FLARE - SOUTH HRRS	PAHs, total, w/o indiv. comp.	1151	0.0068	0.000001	8,760	9.85E-08	9.85E-08
70229	FLARE - SOUTH HRRS	Formaldehyde	50-00-0	2.7560	0.000315	8,760	3.96E-05	3.96E-05
70229	FLARE - SOUTH HRRS	Benzene	71-43-2	1.5368	0.000175	8,760	2.21E-05	2.21E-05
70229	FLARE - SOUTH HRRS	Methyl chloroform	71-55-6	0.0458	0.000005	8,760	6.59E-07	6.59E-07
70229	FLARE - SOUTH HRRS	Ethylene	74-85-1	0.0729	0.000008	8,760	1.05E-06	1.05E-06
70229	FLARE - SOUTH HRRS	Acetaldehyde	75-07-0	0.3559	0.000041	8,760	5.12E-06	5.12E-06
70229	FLARE - SOUTH HRRS	Phenanthrene (PAHs)	85-01-8	0.0003	0.000000	8,760	3.78E-09	3.78E-09
70229	FLARE - SOUTH HRRS	Naphthalene	91-20-3	0.0055	0.000001	8,760	7.93E-08	7.93E-08
70229	FLARE - SOUTH HRRS	Ethyl benzene	100-41-4	0.5548	0.000063	8,760	7.98E-06	7.98E-06
70229	FLARE - SOUTH HRRS	1,3-Butadiene	106-99-0	0.2109	0.000024	8,760	3.03E-06	3.03E-06
70229	FLARE - SOUTH HRRS	Acrolein	107-02-8	0.3351	0.000038	8,760	4.82E-06	4.82E-06
70229	FLARE - SOUTH HRRS	Toluene	108-88-3	2.5004	0.000285	8,760	3.60E-05	3.60E-05
70229	FLARE - SOUTH HRRS	Phenol	108-95-2	0.1270	0.000015	8,760	1.83E-06	1.83E-06
70229	FLARE - SOUTH HRRS	Hexane	110-54-3	32.8524	0.003750	8,760	4.73E-04	4.73E-04
70229	FLARE - SOUTH HRRS	Propylene	115-07-1	0.2187	0.000025	8,760	3.15E-06	3.15E-06
70229	FLARE - SOUTH HRRS	Anthracene	120-12-7	0.0001	0.000000	8,760	7.38E-10	7.38E-10
70229	FLARE - SOUTH HRRS	Dibenzofuran	132-64-9	0.0000	0.000000	8,760	1.60E-12	1.60E-12
70229	FLARE - SOUTH HRRS	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0000	0.000000	8,760	3.07E-10	3.07E-10
70229	FLARE - SOUTH HRRS	Xylenes (mixed isomers)	1330-20-7	0.6826	0.000078	8,760	9.82E-06	9.82E-06
70229	FLARE - SOUTH HRRS	Manganese compounds	7439-96-5	0.1396	0.000016	8,760	2.01E-06	2.01E-06
70229	FLARE - SOUTH HRRS	Mercury compounds	7439-97-6	0.0037	0.000000	8,760	5.30E-08	5.30E-08
70229	FLARE - SOUTH HRRS	Nickel compounds	7440-02-0	0.1935	0.000022	8,760	2.78E-06	2.78E-06
70229	FLARE - SOUTH HRRS	Silver compounds	7440-22-4	0.0330	0.000004	8,760	4.75E-07	4.75E-07
70229	FLARE - SOUTH HRRS	Arsenic	7440-38-2	0.0174	0.000002	8,760	2.50E-07	2.50E-07
70229	FLARE - SOUTH HRRS	Barium	7440-39-3	0.1185	0.000014	8,760	1.70E-06	1.70E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70229	FLARE - SOUTH HRRS	Beryllium	7440-41-7	0.0053	0.000001	8,760	7.56E-08	7.56E-08
70229	FLARE - SOUTH HRRS	Cadmium	7440-43-9	0.0203	0.000002	8,760	2.91E-07	2.91E-07
70229	FLARE - SOUTH HRRS	Chromium compounds	7440-47-3	0.0219	0.000003	8,760	3.15E-07	3.15E-07
70229	FLARE - SOUTH HRRS	Cobalt compounds	7440-48-4	0.0015	0.000000	8,760	2.21E-08	2.21E-08
70229	FLARE - SOUTH HRRS	Copper compounds	7440-50-8	0.0863	0.000010	8,760	1.24E-06	1.24E-06
70229	FLARE - SOUTH HRRS	Vanadium compounds	7440-62-2	0.0420	0.000005	8,760	6.04E-07	6.04E-07
70229	FLARE - SOUTH HRRS	Zinc compounds	7440-66-6	0.4271	0.000049	8,760	6.14E-06	6.14E-06
70229	FLARE - SOUTH HRRS	Hydrochloric acid	7647-01-0	0.2308	0.000026	8,760	3.32E-06	3.32E-06
70229	FLARE - SOUTH HRRS	Hydrogen sulfide	7783-06-4	106.2187	0.012125	8,760	1.53E-03	1.53E-03
70229	FLARE - SOUTH HRRS	Dichlorobenzenes (mixed isomers)	25321-22-6	0.0219	0.000003	8,760	3.15E-07	3.15E-07
70230	FLARE - NORTH HRRS	Lead compounds	1128	0.1435	0.000016	8,760	2.06E-06	2.06E-06
70230	FLARE - NORTH HRRS	PAHs, total, w/o indiv. comp.	1151	0.0098	0.000001	8,760	1.41E-07	1.41E-07
70230	FLARE - NORTH HRRS	Formaldehyde	50-00-0	3.9482	0.000451	8,760	5.68E-05	5.68E-05
70230	FLARE - NORTH HRRS	Benzene	71-43-2	2.2016	0.000251	8,760	3.17E-05	3.17E-05
70230	FLARE - NORTH HRRS	Methyl chloroform	71-55-6	0.0656	0.000007	8,760	9.44E-07	9.44E-07
70230	FLARE - NORTH HRRS	Ethylene	74-85-1	47.1244	0.005379	8,760	6.78E-04	6.78E-04
70230	FLARE - NORTH HRRS	Acetaldehyde	75-07-0	0.5099	0.000058	8,760	7.33E-06	7.33E-06
70230	FLARE - NORTH HRRS	Phenanthrene (PAHs)	85-01-8	0.0004	0.000000	8,760	5.42E-09	5.42E-09
70230	FLARE - NORTH HRRS	Naphthalene	91-20-3	0.0079	0.000001	8,760	1.14E-07	1.14E-07
70230	FLARE - NORTH HRRS	Ethyl benzene	100-41-4	0.7949	0.000091	8,760	1.14E-05	1.14E-05
70230	FLARE - NORTH HRRS	1,3-Butadiene	106-99-0	0.0909	0.000010	8,760	1.31E-06	1.31E-06
70230	FLARE - NORTH HRRS	Acrolein	107-02-8	0.4801	0.000055	8,760	6.90E-06	6.90E-06
70230	FLARE - NORTH HRRS	Toluene	108-88-3	3.5821	0.000409	8,760	5.15E-05	5.15E-05
70230	FLARE - NORTH HRRS	Phenol	108-95-2	0.1820	0.000021	8,760	2.62E-06	2.62E-06
70230	FLARE - NORTH HRRS	Hexane	110-54-3	47.0647	0.005373	8,760	6.77E-04	6.77E-04
70230	FLARE - NORTH HRRS	Propylene	115-07-1	39.7306	0.004535	8,760	5.71E-04	5.71E-04
70230	FLARE - NORTH HRRS	Anthracene	120-12-7	0.0001	0.000000	8,760	1.06E-09	1.06E-09
70230	FLARE - NORTH HRRS	Dibenzofuran	132-64-9	0.0000	0.000000	8,760	2.30E-12	2.30E-12
70230	FLARE - NORTH HRRS	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0000	0.000000	8,760	4.40E-10	4.40E-10
70230	FLARE - NORTH HRRS	Xylenes (mixed isomers)	1330-20-7	0.9779	0.000112	8,760	1.41E-05	1.41E-05
70230	FLARE - NORTH HRRS	Manganese compounds	7439-96-5	0.2000	0.000023	8,760	2.88E-06	2.88E-06
70230	FLARE - NORTH HRRS	Mercury compounds	7439-97-6	0.0053	0.000001	8,760	7.60E-08	7.60E-08

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70230	FLARE - NORTH HRRS	Nickel compounds	7440-02-0	0.2772	0.000032	8,760	3.99E-06	3.99E-06
70230	FLARE - NORTH HRRS	Silver compounds	7440-22-4	0.0473	0.000005	8,760	6.81E-07	6.81E-07
70230	FLARE - NORTH HRRS	Arsenic	7440-38-2	0.0249	0.000003	8,760	3.59E-07	3.59E-07
70230	FLARE - NORTH HRRS	Barium	7440-39-3	0.1697	0.000019	8,760	2.44E-06	2.44E-06
70230	FLARE - NORTH HRRS	Beryllium	7440-41-7	0.0075	0.000001	8,760	1.08E-07	1.08E-07
70230	FLARE - NORTH HRRS	Cadmium	7440-43-9	0.0290	0.000003	8,760	4.17E-07	4.17E-07
70230	FLARE - NORTH HRRS	Chromium compounds	7440-47-3	0.0314	0.000004	8,760	4.51E-07	4.51E-07
70230	FLARE - NORTH HRRS	Cobalt compounds	7440-48-4	0.0022	0.000000	8,760	3.16E-08	3.16E-08
70230	FLARE - NORTH HRRS	Copper compounds	7440-50-8	0.1237	0.000014	8,760	1.78E-06	1.78E-06
70230	FLARE - NORTH HRRS	Vanadium compounds	7440-62-2	0.0601	0.000007	8,760	8.65E-07	8.65E-07
70230	FLARE - NORTH HRRS	Zinc compounds	7440-66-6	0.6118	0.000070	8,760	8.80E-06	8.80E-06
70230	FLARE - NORTH HRRS	Hydrochloric acid	7647-01-0	0.3307	0.000038	8,760	4.76E-06	4.76E-06
70230	FLARE - NORTH HRRS	Hydrogen sulfide	7783-06-4	218.8478	0.024983	8,760	3.15E-03	3.15E-03
70230	FLARE - NORTH HRRS	Dichlorobenzenes (mixed isomers)	25321-22-6	0.0314	0.000004	8,760	4.51E-07	4.51E-07
70231	FLARE - UNICRACKER HRRS	Lead compounds	1128	0.0421	0.000005	8,760	6.06E-07	6.06E-07
70231	FLARE - UNICRACKER HRRS	PAHs, total, w/o indiv. comp.	1151	0.0029	0.000000	8,760	4.14E-08	4.14E-08
70231	FLARE - UNICRACKER HRRS	Formaldehyde	50-00-0	1.1590	0.000132	8,760	1.67E-05	1.67E-05
70231	FLARE - UNICRACKER HRRS	Benzene	71-43-2	0.6463	0.000074	8,760	9.30E-06	9.30E-06
70231	FLARE - UNICRACKER HRRS	Methyl chloroform	71-55-6	0.0193	0.000002	8,760	2.77E-07	2.77E-07
70231	FLARE - UNICRACKER HRRS	Ethylene	74-85-1	5.6148	0.000641	8,760	8.08E-05	8.08E-05
70231	FLARE - UNICRACKER HRRS	Acetaldehyde	75-07-0	0.1497	0.000017	8,760	2.15E-06	2.15E-06
70231	FLARE - UNICRACKER HRRS	Phenanthrene (PAHs)	85-01-8	0.0001	0.000000	8,760	1.59E-09	1.59E-09
70231	FLARE - UNICRACKER HRRS	Naphthalene	91-20-3	0.0023	0.000000	8,760	3.33E-08	3.33E-08
70231	FLARE - UNICRACKER HRRS	Ethyl benzene	100-41-4	0.2333	0.000027	8,760	3.36E-06	3.36E-06
70231	FLARE - UNICRACKER HRRS	1,3-Butadiene	106-99-0	0.1094	0.000012	8,760	1.57E-06	1.57E-06
70231	FLARE - UNICRACKER HRRS	Acrolein	107-02-8	0.1409	0.000016	8,760	2.03E-06	2.03E-06
70231	FLARE - UNICRACKER HRRS	Toluene	108-88-3	1.0515	0.000120	8,760	1.51E-05	1.51E-05
70231	FLARE - UNICRACKER HRRS	Phenol	108-95-2	0.0534	0.000006	8,760	7.68E-07	7.68E-07
70231	FLARE - UNICRACKER HRRS	Hexane	110-54-3	13.8155	0.001577	8,760	1.99E-04	1.99E-04
70231	FLARE - UNICRACKER HRRS	Propylene	115-07-1	20.1222	0.002297	8,760	2.89E-04	2.89E-04
70231	FLARE - UNICRACKER HRRS	Anthracene	120-12-7	0.0000	0.000000	8,760	3.10E-10	3.10E-10
70231	FLARE - UNICRACKER HRRS	Dibenzofuran	132-64-9	0.0000	0.000000	8,760	6.74E-13	6.74E-13

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70231	FLARE - UNICRACKER HRRS	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0000	0.000000	8,760	1.29E-10	1.29E-10
70231	FLARE - UNICRACKER HRRS	Xylenes (mixed isomers)	1330-20-7	0.2871	0.000033	8,760	4.13E-06	4.13E-06
70231	FLARE - UNICRACKER HRRS	Manganese compounds	7439-96-5	0.0587	0.000007	8,760	8.45E-07	8.45E-07
70231	FLARE - UNICRACKER HRRS	Mercury compounds	7439-97-6	0.0016	0.000000	8,760	2.23E-08	2.23E-08
70231	FLARE - UNICRACKER HRRS	Nickel compounds	7440-02-0	0.0814	0.000009	8,760	1.17E-06	1.17E-06
70231	FLARE - UNICRACKER HRRS	Silver compounds	7440-22-4	0.0139	0.000002	8,760	2.00E-07	2.00E-07
70231	FLARE - UNICRACKER HRRS	Arsenic	7440-38-2	0.0073	0.000001	8,760	1.05E-07	1.05E-07
70231	FLARE - UNICRACKER HRRS	Barium	7440-39-3	0.0498	0.000006	8,760	7.16E-07	7.16E-07
70231	FLARE - UNICRACKER HRRS	Beryllium	7440-41-7	0.0022	0.000000	8,760	3.18E-08	3.18E-08
70231	FLARE - UNICRACKER HRRS	Cadmium	7440-43-9	0.0085	0.000001	8,760	1.23E-07	1.23E-07
70231	FLARE - UNICRACKER HRRS	Chromium compounds	7440-47-3	0.0092	0.000001	8,760	1.32E-07	1.32E-07
70231	FLARE - UNICRACKER HRRS	Cobalt compounds	7440-48-4	0.0006	0.000000	8,760	9.27E-09	9.27E-09
70231	FLARE - UNICRACKER HRRS	Copper compounds	7440-50-8	0.0363	0.000004	8,760	5.22E-07	5.22E-07
70231	FLARE - UNICRACKER HRRS	Vanadium compounds	7440-62-2	0.0177	0.000002	8,760	2.54E-07	2.54E-07
70231	FLARE - UNICRACKER HRRS	Zinc compounds	7440-66-6	0.1796	0.000021	8,760	2.58E-06	2.58E-06
70231	FLARE - UNICRACKER HRRS	Hydrochloric acid	7647-01-0	0.0971	0.000011	8,760	1.40E-06	1.40E-06
70231	FLARE - UNICRACKER HRRS	Hydrogen sulfide	7783-06-4	72.5405	0.008281	8,760	1.04E-03	1.04E-03
70231	FLARE - UNICRACKER HRRS	Dichlorobenzenes (mixed isomers)	25321-22-6	0.0092	0.000001	8,760	1.32E-07	1.32E-07
70232	FLARE - BUTANE RECOV SYS	Lead compounds	1128	0.0990	0.000011	8,760	1.42E-06	1.42E-06
70232	FLARE - BUTANE RECOV SYS	PAHs, total, w/o indiv. comp.	1151	0.0068	0.000001	8,760	9.73E-08	9.73E-08
70232	FLARE - BUTANE RECOV SYS	Formaldehyde	50-00-0	2.7237	0.000311	8,760	3.92E-05	3.92E-05
70232	FLARE - BUTANE RECOV SYS	Benzene	71-43-2	1.5188	0.000173	8,760	2.18E-05	2.18E-05
70232	FLARE - BUTANE RECOV SYS	Methyl chloroform	71-55-6	0.0453	0.000005	8,760	6.51E-07	6.51E-07
70232	FLARE - BUTANE RECOV SYS	Ethylene	74-85-1	0.1181	0.000013	8,760	1.70E-06	1.70E-06
70232	FLARE - BUTANE RECOV SYS	Acetaldehyde	75-07-0	0.3517	0.000040	8,760	5.06E-06	5.06E-06
70232	FLARE - BUTANE RECOV SYS	Phenanthrene (PAHs)	85-01-8	0.0003	0.000000	8,760	3.74E-09	3.74E-09
70232	FLARE - BUTANE RECOV SYS	Naphthalene	91-20-3	0.0054	0.000001	8,760	7.84E-08	7.84E-08
70232	FLARE - BUTANE RECOV SYS	Ethyl benzene	100-41-4	0.5483	0.000063	8,760	7.89E-06	7.89E-06
70232	FLARE - BUTANE RECOV SYS	1,3-Butadiene	106-99-0	91.6430	0.010462	8,760	1.32E-03	1.32E-03
70232	FLARE - BUTANE RECOV SYS	Acrolein	107-02-8	0.3312	0.000038	8,760	4.76E-06	4.76E-06
70232	FLARE - BUTANE RECOV SYS	Toluene	108-88-3	2.4711	0.000282	8,760	3.55E-05	3.55E-05
70232	FLARE - BUTANE RECOV SYS	Phenol	108-95-2	0.1255	0.000014	8,760	1.81E-06	1.81E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70232	FLARE - BUTANE RECOV SYS	Hexane	110-54-3	32.4675	0.003706	8,760	4.67E-04	4.67E-04
70232	FLARE - BUTANE RECOV SYS	Propylene	115-07-1	2,563.1690	0.292599	8,760	3.69E-02	3.69E-02
70232	FLARE - BUTANE RECOV SYS	Anthracene	120-12-7	0.0001	0.000000	8,760	7.29E-10	7.29E-10
70232	FLARE - BUTANE RECOV SYS	Dibenzofuran	132-64-9	0.0000	0.000000	8,760	1.59E-12	1.59E-12
70232	FLARE - BUTANE RECOV SYS	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0000	0.000000	8,760	3.04E-10	3.04E-10
70232	FLARE - BUTANE RECOV SYS	Xylenes (mixed isomers)	1330-20-7	0.6746	0.000077	8,760	9.70E-06	9.70E-06
70232	FLARE - BUTANE RECOV SYS	Manganese compounds	7439-96-5	0.1380	0.000016	8,760	1.98E-06	1.98E-06
70232	FLARE - BUTANE RECOV SYS	Mercury compounds	7439-97-6	0.0036	0.000000	8,760	5.24E-08	5.24E-08
70232	FLARE - BUTANE RECOV SYS	Nickel compounds	7440-02-0	0.1912	0.000022	8,760	2.75E-06	2.75E-06
70232	FLARE - BUTANE RECOV SYS	Silver compounds	7440-22-4	0.0326	0.000004	8,760	4.70E-07	4.70E-07
70232	FLARE - BUTANE RECOV SYS	Arsenic	7440-38-2	0.0172	0.000002	8,760	2.48E-07	2.48E-07
70232	FLARE - BUTANE RECOV SYS	Barium	7440-39-3	0.1171	0.000013	8,760	1.68E-06	1.68E-06
70232	FLARE - BUTANE RECOV SYS	Beryllium	7440-41-7	0.0052	0.000001	8,760	7.47E-08	7.47E-08
70232	FLARE - BUTANE RECOV SYS	Cadmium	7440-43-9	0.0200	0.000002	8,760	2.88E-07	2.88E-07
70232	FLARE - BUTANE RECOV SYS	Chromium compounds	7440-47-3	0.0216	0.000002	8,760	3.11E-07	3.11E-07
70232	FLARE - BUTANE RECOV SYS	Cobalt compounds	7440-48-4	0.0015	0.000000	8,760	2.18E-08	2.18E-08
70232	FLARE - BUTANE RECOV SYS	Copper compounds	7440-50-8	0.0853	0.000010	8,760	1.23E-06	1.23E-06
70232	FLARE - BUTANE RECOV SYS	Vanadium compounds	7440-62-2	0.0415	0.000005	8,760	5.97E-07	5.97E-07
70232	FLARE - BUTANE RECOV SYS	Zinc compounds	7440-66-6	0.4221	0.000048	8,760	6.07E-06	6.07E-06
70232	FLARE - BUTANE RECOV SYS	Hydrochloric acid	7647-01-0	0.2281	0.000026	8,760	3.28E-06	3.28E-06
70232	FLARE - BUTANE RECOV SYS	Hydrogen sulfide	7783-06-4	15.1816	0.001733	8,760	2.18E-04	2.18E-04
70232	FLARE - BUTANE RECOV SYS	Dichlorobenzenes (mixed isomers)	25321-22-6	0.0216	0.000002	8,760	3.11E-07	3.11E-07
70233	SPILLS AND RELEASES	Lead compounds	1128	0.0000	0.000000	8,760	1.23E-11	1.23E-11
70233	SPILLS AND RELEASES	PAHs, total, w/o indiv. comp.	1151	0.0056	0.000001	8,760	8.11E-08	8.11E-08
70233	SPILLS AND RELEASES	Benzene	71-43-2	0.0462	0.000005	8,760	6.64E-07	6.64E-07
70233	SPILLS AND RELEASES	Ethylene	74-85-1	0.0718	0.000008	8,760	1.03E-06	1.03E-06
70233	SPILLS AND RELEASES	Naphthalene	91-20-3	0.1853	0.000021	8,760	2.67E-06	2.67E-06
70233	SPILLS AND RELEASES	Benzidine	92-87-5	0.0000	0.000000	8,760	3.20E-10	3.20E-10
70233	SPILLS AND RELEASES	1,2,4-Trimethylbenzene	95-63-6	0.1504	0.000017	8,760	2.16E-06	2.16E-06
70233	SPILLS AND RELEASES	Cumene	98-82-8	0.0207	0.000002	8,760	2.98E-07	2.98E-07
70233	SPILLS AND RELEASES	Ethyl benzene	100-41-4	0.1016	0.000012	8,760	1.46E-06	1.46E-06
70233	SPILLS AND RELEASES	Styrene	100-42-5	0.0123	0.000001	8,760	1.77E-07	1.77E-07

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70233	SPILLS AND RELEASES	1,3-Butadiene	106-99-0	0.0088	0.000001	8,760	1.26E-07	1.26E-07
70233	SPILLS AND RELEASES	Toluene	108-88-3	0.1859	0.000021	8,760	2.67E-06	2.67E-06
70233	SPILLS AND RELEASES	Phenol	108-95-2	0.0016	0.000000	8,760	2.24E-08	2.24E-08
70233	SPILLS AND RELEASES	Hexane	110-54-3	0.9021	0.000103	8,760	1.30E-05	1.30E-05
70233	SPILLS AND RELEASES	Cyclohexane	110-82-7	0.1430	0.000016	8,760	2.06E-06	2.06E-06
70233	SPILLS AND RELEASES	Propylene	115-07-1	0.0199	0.000002	8,760	2.86E-07	2.86E-07
70233	SPILLS AND RELEASES	Di(2-ethylhexyl) phthalate	117-81-7	0.0000	0.000000	8,760	2.51E-11	2.51E-11
70233	SPILLS AND RELEASES	Anthracene	120-12-7	0.0015	0.000000	8,760	2.12E-08	2.12E-08
70233	SPILLS AND RELEASES	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	8,760	9.16E-10	9.16E-10
70233	SPILLS AND RELEASES	Cresol (mixed isomers)	1319-77-3	0.0046	0.000001	8,760	6.65E-08	6.65E-08
70233	SPILLS AND RELEASES	Xylenes (mixed isomers)	1330-20-7	0.4493	0.000051	8,760	6.46E-06	6.46E-06
70233	SPILLS AND RELEASES	Methyl tert-butyl ether	1634-04-4	0.0131	0.000001	8,760	1.88E-07	1.88E-07
70233	SPILLS AND RELEASES	Manganese compounds	7439-96-5	0.0000	0.000000	8,760	3.51E-11	3.51E-11
70233	SPILLS AND RELEASES	Mercury compounds	7439-97-6	0.0000	0.000000	8,760	1.30E-10	1.30E-10
70233	SPILLS AND RELEASES	Nickel compounds	7440-02-0	0.0000	0.000000	8,760	5.74E-10	5.74E-10
70233	SPILLS AND RELEASES	Cobalt compounds	7440-48-4	0.0000	0.000000	8,760	7.93E-12	7.93E-12
70233	SPILLS AND RELEASES	Copper compounds	7440-50-8	0.0000	0.000000	8,760	2.14E-11	2.14E-11
70233	SPILLS AND RELEASES	Zinc compounds	7440-66-6	0.0000	0.000000	8,760	2.49E-10	2.49E-10
70233	SPILLS AND RELEASES	Hydrogen sulfide	7783-06-4	0.1224	0.000014	8,760	1.76E-06	1.76E-06
70233	SPILLS AND RELEASES	Dichlorobenzenes (mixed isomers)	25321-22-6	0.0000	0.000000	8,760	1.48E-10	1.48E-10
70236	REFRIGERANT USAGE	Fluorocarbons (chlorinated)	1104	7.7600	0.003731	2,080	1.12E-04	4.70E-04
70236	REFRIGERANT USAGE	Chlorodifluoromethane {Freon 22}	75-45-6	100.0000	0.048077	2,080	1.44E-03	6.06E-03
70237	SPENT ACID LOADING	Benzene	71-43-2	0.0003	0.000000	2,080	4.01E-09	1.69E-08
70237	SPENT ACID LOADING	1,2,4-Trimethylbenzene	95-63-6	0.0000	0.000000	2,080	2.37E-10	9.99E-10
70237	SPENT ACID LOADING	Ethyl benzene	100-41-4	0.0001	0.000000	2,080	7.98E-10	3.36E-09
70237	SPENT ACID LOADING	Toluene	108-88-3	0.0008	0.000000	2,080	1.17E-08	4.93E-08
70237	SPENT ACID LOADING	Hexane	110-54-3	0.0018	0.000001	2,080	2.58E-08	1.09E-07
70237	SPENT ACID LOADING	Cyclohexane	110-82-7	0.0003	0.000000	2,080	4.13E-09	1.74E-08
70237	SPENT ACID LOADING	Xylenes (mixed isomers)	1330-20-7	0.0003	0.000000	2,080	3.70E-09	1.56E-08
70238	TANK DEGASSING	Lead compounds	1128	0.0216	0.000119	182	3.11E-07	1.49E-05
70238	TANK DEGASSING	PAHs, total, w/o indiv. comp.	1151	0.0029	0.000016	182	4.17E-08	2.01E-06
70238	TANK DEGASSING	Formaldehyde	50-00-0	0.2955	0.001624	182	4.25E-06	2.05E-04

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70238	TANK DEGASSING	Benzene	71-43-2	0.3409	0.001873	182	4.90E-06	2.36E-04
70238	TANK DEGASSING	Acetaldehyde	75-07-0	0.0682	0.000375	182	9.81E-07	4.72E-05
70238	TANK DEGASSING	Naphthalene	91-20-3	0.0022	0.000012	182	3.19E-08	1.53E-06
70238	TANK DEGASSING	1,2-Dichlorobenzene	95-50-1	0.0027	0.000015	182	3.90E-08	1.88E-06
70238	TANK DEGASSING	Ethyl benzene	100-41-4	0.0909	0.000500	182	1.31E-06	6.29E-05
70238	TANK DEGASSING	Acrolein	107-02-8	0.0966	0.000531	182	1.39E-06	6.69E-05
70238	TANK DEGASSING	Toluene	108-88-3	0.8524	0.004683	182	1.23E-05	5.90E-04
70238	TANK DEGASSING	Phenol	108-95-2	0.0227	0.000125	182	3.27E-07	1.57E-05
70238	TANK DEGASSING	Hexane	110-54-3	4.0690	0.022357	182	5.85E-05	2.82E-03
70238	TANK DEGASSING	Propylene	115-07-1	0.8524	0.004683	182	1.23E-05	5.90E-04
70238	TANK DEGASSING	Xylenes (mixed isomers)	1330-20-7	0.1421	0.000781	182	2.04E-06	9.83E-05
70238	TANK DEGASSING	Manganese compounds	7439-96-5	0.0278	0.000153	182	4.00E-07	1.93E-05
70238	TANK DEGASSING	Mercury compounds	7439-97-6	0.0010	0.000006	182	1.47E-08	7.08E-07
70238	TANK DEGASSING	Nickel compounds	7440-02-0	0.0426	0.000234	182	6.13E-07	2.95E-05
70238	TANK DEGASSING	Silver compounds	7440-22-4	0.0091	0.000050	182	1.31E-07	6.29E-06
70238	TANK DEGASSING	Antimony	7440-36-0	0.0030	0.000016	182	4.25E-08	2.05E-06
70238	TANK DEGASSING	Arsenic	7440-38-2	0.0041	0.000022	182	5.88E-08	2.83E-06
70238	TANK DEGASSING	Barium	7440-39-3	0.0099	0.000055	182	1.43E-07	6.89E-06
70238	TANK DEGASSING	Beryllium	7440-41-7	0.0007	0.000004	182	1.06E-08	5.11E-07
70238	TANK DEGASSING	Cadmium	7440-43-9	0.0085	0.000047	182	1.23E-07	5.90E-06
70238	TANK DEGASSING	Chromium compounds	7440-47-3	0.0324	0.000178	182	4.66E-07	2.24E-05
70238	TANK DEGASSING	Copper compounds	7440-50-8	0.0267	0.000147	182	3.84E-07	1.85E-05
70238	TANK DEGASSING	Vanadium compounds	7440-62-2	0.0052	0.000029	182	7.48E-08	3.60E-06
70238	TANK DEGASSING	Zinc compounds	7440-66-6	0.0656	0.000360	182	9.43E-07	4.54E-05
70238	TANK DEGASSING	Selenium compounds	7782-49-2	0.0050	0.000027	182	7.19E-08	3.46E-06
70238	TANK DEGASSING	Hydrogen sulfide	7783-06-4	0.4830	0.002654	182	6.95E-06	3.34E-04
70239	CATALYST	Molybdenum trioxide	1313-27-5	70.9367	0.008098	8,760	1.02E-03	1.02E-03
70239	CATALYST	Nickel compounds	7440-02-0	17.9685	0.002051	8,760	2.58E-04	2.58E-04
70239	CATALYST	Cobalt compounds	7440-48-4	2.1053	0.000240	8,760	3.03E-05	3.03E-05
70239	CATALYST	Zinc compounds	7440-66-6	56.7868	0.006483	8,760	8.17E-04	8.17E-04
70240	TANK 349	Benzene	71-43-2	6.5913	0.000752	8,760	9.48E-05	9.48E-05
70240	TANK 349	Naphthalene	91-20-3	7.4448	0.000850	8,760	1.07E-04	1.07E-04

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70240	TANK 349	1,2,4-Trimethylbenzene	95-63-6	53.4701	0.006104	8,760	7.69E-04	7.69E-04
70240	TANK 349	Cumene	98-82-8	2.0679	0.000236	8,760	2.97E-05	2.97E-05
70240	TANK 349	Ethyl benzene	100-41-4	17.7756	0.002029	8,760	2.56E-04	2.56E-04
70240	TANK 349	Toluene	108-88-3	40.3954	0.004611	8,760	5.81E-04	5.81E-04
70240	TANK 349	Hexane	110-54-3	57.0255	0.006510	8,760	8.20E-04	8.20E-04
70240	TANK 349	Cyclohexane	110-82-7	32.2928	0.003686	8,760	4.64E-04	4.64E-04
70240	TANK 349	Propylene	115-07-1	5.4231	0.000619	8,760	7.80E-05	7.80E-05
70240	TANK 349	Xylenes (mixed isomers)	1330-20-7	96.3096	0.010994	8,760	1.39E-03	1.39E-03
70240	TANK 349	Methyl tert-butyl ether	1634-04-4	5.1440	0.000587	8,760	7.40E-05	7.40E-05
70241	PEABODY HEATER	Lead compounds	1128	0.2415	0.048302	5	3.47E-06	6.09E-03
70241	PEABODY HEATER	Formaldehyde	50-00-0	10.2015	2.040308	5	1.47E-04	2.57E-01
70241	PEABODY HEATER	Benzene	71-43-2	0.1280	0.025606	5	1.84E-06	3.23E-03
70241	PEABODY HEATER	Acetaldehyde	75-07-0	10.2015	2.040308	5	1.47E-04	2.57E-01
70241	PEABODY HEATER	Phenanthrene (PAHs)	85-01-8	0.0563	0.011259	5	8.10E-07	1.42E-03
70241	PEABODY HEATER	Naphthalene	91-20-3	0.1542	0.030843	5	2.22E-06	3.89E-03
70241	PEABODY HEATER	Ethyl benzene	100-41-4	0.0058	0.001164	5	8.37E-08	1.47E-04
70241	PEABODY HEATER	1,3-Butadiene	106-99-0	0.4306	0.086128	5	6.19E-06	1.09E-02
70241	PEABODY HEATER	Acrolein	107-02-8	10.2015	2.040308	5	1.47E-04	2.57E-01
70241	PEABODY HEATER	Toluene	108-88-3	0.1280	0.025606	5	1.84E-06	3.23E-03
70241	PEABODY HEATER	Chlorobenzene	108-90-7	0.0058	0.001164	5	8.37E-08	1.47E-04
70241	PEABODY HEATER	Hexane	110-54-3	0.1018	0.020368	5	1.46E-06	2.57E-03
70241	PEABODY HEATER	Propylene	115-07-1	0.2910	0.058195	5	4.19E-06	7.33E-03
70241	PEABODY HEATER	Anthracene	120-12-7	0.0563	0.011259	5	8.10E-07	1.42E-03
70241	PEABODY HEATER	Dibenzofuran	132-64-9	0.0000	0.000000	5	3.52E-12	6.16E-09
70241	PEABODY HEATER	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0563	0.011259	5	8.10E-07	1.42E-03
70241	PEABODY HEATER	Xylenes (mixed isomers)	1330-20-7	0.0466	0.009311	5	6.70E-07	1.17E-03
70241	PEABODY HEATER	Manganese compounds	7439-96-5	0.0902	0.018040	5	1.30E-06	2.27E-03
70241	PEABODY HEATER	Mercury compounds	7439-97-6	0.0582	0.011639	5	8.37E-07	1.47E-03
70241	PEABODY HEATER	Nickel compounds	7440-02-0	0.1135	0.022696	5	1.63E-06	2.86E-03
70241	PEABODY HEATER	Arsenic	7440-38-2	0.0466	0.009311	5	6.70E-07	1.17E-03
70241	PEABODY HEATER	Cadmium	7440-43-9	0.0436	0.008729	5	6.28E-07	1.10E-03
70241	PEABODY HEATER	Chromium compounds	7440-47-3	0.0175	0.003492	5	2.51E-07	4.40E-04

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70241	PEABODY HEATER	Copper compounds	7440-50-8	0.1193	0.023860	5	1.72E-06	3.01E-03
70241	PEABODY HEATER	Zinc compounds	7440-66-6	0.6518	0.130356	5	9.37E-06	1.64E-02
70241	PEABODY HEATER	Hydrochloric acid	7647-01-0	5.4208	1.084168	5	7.80E-05	1.37E-01
70241	PEABODY HEATER	Ammonia	7664-41-7	23.2779	4.655580	5	3.35E-04	5.87E-01
70241	PEABODY HEATER	Sulfuric acid	7664-93-9	8.0414	1.608271	5	1.16E-04	2.03E-01
70241	PEABODY HEATER	Selenium compounds	7782-49-2	0.0640	0.012803	5	9.21E-07	1.61E-03
70241	PEABODY HEATER	Chromium, hexavalent	18540-29-9	0.0029	0.000582	5	4.19E-08	7.33E-05
70242	U100 CAT REGEN	Dioxins, total, w/o Inc. isomers	1086	0.0000	0.000000	6,972	2.78E-12	3.50E-12
70242	U100 CAT REGEN	Hydrochloric acid	7647-01-0	1.0927	0.000157	6,972	1.57E-05	1.97E-05
70243	CLEANOUT SUMPS	Benzene	71-43-2	15.7219	0.001795	8,760	2.26E-04	2.26E-04
70243	CLEANOUT SUMPS	Naphthalene	91-20-3	0.0821	0.000009	8,760	1.18E-06	1.18E-06
70243	CLEANOUT SUMPS	1,2,4-Trimethylbenzene	95-63-6	2.7735	0.000317	8,760	3.99E-05	3.99E-05
70243	CLEANOUT SUMPS	Cumene	98-82-8	0.2608	0.000030	8,760	3.75E-06	3.75E-06
70243	CLEANOUT SUMPS	Ethyl benzene	100-41-4	4.6150	0.000527	8,760	6.64E-05	6.64E-05
70243	CLEANOUT SUMPS	Toluene	108-88-3	30.1822	0.003445	8,760	4.34E-04	4.34E-04
70243	CLEANOUT SUMPS	Hexane	110-54-3	207.1743	0.023650	8,760	2.98E-03	2.98E-03
70243	CLEANOUT SUMPS	Cyclohexane	110-82-7	79.1700	0.009038	8,760	1.14E-03	1.14E-03
70243	CLEANOUT SUMPS	Propylene	115-07-1	124.4825	0.014210	8,760	1.79E-03	1.79E-03
70243	CLEANOUT SUMPS	Xylenes (mixed isomers)	1330-20-7	19.3701	0.002211	8,760	2.79E-04	2.79E-04
70244	WELDING	Manganese compounds	7439-96-5	4.7587	0.002288	2,080	6.84E-05	2.88E-04
70244	WELDING	Nickel compounds	7440-02-0	7.6101	0.003659	2,080	1.09E-04	4.61E-04
70244	WELDING	Chromium compounds	7440-47-3	2.6536	0.001276	2,080	3.82E-05	1.61E-04
70244	WELDING	Cobalt compounds	7440-48-4	0.0021	0.000001	2,080	3.02E-08	1.27E-07
70244	WELDING	Copper compounds	7440-50-8	0.3221	0.000155	2,080	4.63E-06	1.95E-05
70244	WELDING	Chromium, hexavalent	18540-29-9	0.1326	0.000064	2,080	1.91E-06	8.03E-06
70245	ABRASIVE BLASTING	Lead	7439-92-1	0.0117	0.000006	2,080	1.69E-07	7.12E-07
70245	ABRASIVE BLASTING	Manganese compounds	7439-96-5	0.0049	0.000002	2,080	7.01E-08	2.95E-07
70245	ABRASIVE BLASTING	Nickel compounds	7440-02-0	0.0049	0.000002	2,080	7.01E-08	2.95E-07
70245	ABRASIVE BLASTING	Cadmium	7440-43-9	0.0025	0.000001	2,080	3.64E-08	1.53E-07
70245	ABRASIVE BLASTING	Chromium compounds	7440-47-3	0.0075	0.000004	2,080	1.07E-07	4.51E-07
70246	NON-PERMITTED ICE'S - NG	Lead compounds	1128	0.0220	0.000003	8,760	3.16E-07	3.16E-07
70246	NON-PERMITTED ICE'S - NG	PAHs, total, w/o ind. comp.	1151	0.0004	0.000000	8,760	5.27E-09	5.27E-09

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70246	NON-PERMITTED ICE'S - NG	Formaldehyde	50-00-0	0.0677	0.000008	8,760	9.74E-07	9.74E-07
70246	NON-PERMITTED ICE'S - NG	Benzene	71-43-2	0.0319	0.000004	8,760	4.59E-07	4.59E-07
70246	NON-PERMITTED ICE'S - NG	Acetaldehyde	75-07-0	0.0171	0.000002	8,760	2.45E-07	2.45E-07
70246	NON-PERMITTED ICE'S - NG	Phenanthrene (PAHs)	85-01-8	0.0001	0.000000	8,760	8.19E-10	8.19E-10
70246	NON-PERMITTED ICE'S - NG	Naphthalene	91-20-3	0.0005	0.000000	8,760	7.31E-09	7.31E-09
70246	NON-PERMITTED ICE'S - NG	Ethyl benzene	100-41-4	0.0380	0.000004	8,760	5.46E-07	5.46E-07
70246	NON-PERMITTED ICE'S - NG	Acrolein	107-02-8	0.0149	0.000002	8,760	2.14E-07	2.14E-07
70246	NON-PERMITTED ICE'S - NG	Toluene	108-88-3	0.1459	0.000017	8,760	2.10E-06	2.10E-06
70246	NON-PERMITTED ICE'S - NG	Phenol	108-95-2	0.0231	0.000003	8,760	3.33E-07	3.33E-07
70246	NON-PERMITTED ICE'S - NG	Hexane	110-54-3	0.0253	0.000003	8,760	3.64E-07	3.64E-07
70246	NON-PERMITTED ICE'S - NG	Propylene	115-07-1	2.9175	0.000333	8,760	4.20E-05	4.20E-05
70246	NON-PERMITTED ICE'S - NG	Anthracene	120-12-7	0.0000	0.000000	8,760	1.20E-10	1.20E-10
70246	NON-PERMITTED ICE'S - NG	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0000	0.000000	8,760	3.33E-11	3.33E-11
70246	NON-PERMITTED ICE'S - NG	Xylenes (mixed isomers)	1330-20-7	0.1084	0.000012	8,760	1.56E-06	1.56E-06
70246	NON-PERMITTED ICE'S - NG	Manganese compounds	7439-96-5	0.0283	0.000003	8,760	4.07E-07	4.07E-07
70246	NON-PERMITTED ICE'S - NG	Mercury compounds	7439-97-6	0.0003	0.000000	8,760	4.61E-09	4.61E-09
70246	NON-PERMITTED ICE'S - NG	Nickel compounds	7440-02-0	0.0434	0.000005	8,760	6.24E-07	6.24E-07
70246	NON-PERMITTED ICE'S - NG	Silver compounds	7440-22-4	0.0092	0.000001	8,760	1.33E-07	1.33E-07
70246	NON-PERMITTED ICE'S - NG	Thallium	7440-28-0	0.0335	0.000004	8,760	4.82E-07	4.82E-07
70246	NON-PERMITTED ICE'S - NG	Antimony	7440-36-0	0.0009	0.000000	8,760	1.33E-08	1.33E-08
70246	NON-PERMITTED ICE'S - NG	Arsenic	7440-38-2	0.0013	0.000000	8,760	1.84E-08	1.84E-08
70246	NON-PERMITTED ICE'S - NG	Barium	7440-39-3	0.0335	0.000004	8,760	4.82E-07	4.82E-07
70246	NON-PERMITTED ICE'S - NG	Beryllium	7440-41-7	0.0002	0.000000	8,760	3.33E-09	3.33E-09
70246	NON-PERMITTED ICE'S - NG	Cadmium	7440-43-9	0.0087	0.000001	8,760	1.25E-07	1.25E-07
70246	NON-PERMITTED ICE'S - NG	Chromium compounds	7440-47-3	0.0329	0.000004	8,760	4.74E-07	4.74E-07
70246	NON-PERMITTED ICE'S - NG	Copper compounds	7440-50-8	0.0272	0.000003	8,760	3.91E-07	3.91E-07
70246	NON-PERMITTED ICE'S - NG	Zinc compounds	7440-66-6	0.3063	0.000035	8,760	4.41E-06	4.41E-06
70246	NON-PERMITTED ICE'S - NG	Ammonia	7664-41-7	17.6154	0.002010	8,760	2.53E-04	2.53E-04
70248	BLOCK 35 - NON-PER ICES - DIESEL	Diesel exhaust particulates	9901	115.9305	0.013234	8,760	1.67E-03	1.67E-03
70249	BLOCK 45 - NON-PER ICES - DIESEL	Diesel exhaust particulates	9901	10.0888	0.001152	8,760	1.45E-04	1.45E-04
70250	BLOCK 17 - NON-PER ICES - DIESEL	Diesel exhaust particulates	9901	20.8775	0.002383	8,760	3.00E-04	3.00E-04
70251	BLOCK 7 - NON-PER ICES - DIESEL	Diesel exhaust particulates	9901	32.2103	0.003677	8,760	4.63E-04	4.63E-04

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70252	BLOCK 34 - NON-PER ICES - DIESEL	Diesel exhaust particulates	9901	3.6537	0.000417	8,760	5.26E-05	5.26E-05
70253	BLOCK 36 - NON-PER ICES - DIESEL	Diesel exhaust particulates	9901	3.4938	0.000399	8,760	5.03E-05	5.03E-05
70255	BLOCK 33 - NON-PER ICES - DIESEL	Diesel exhaust particulates	9901	2.1351	0.000244	8,760	3.07E-05	3.07E-05
70256	BLOCK 26 - NON-PER ICES - DIESEL	Diesel exhaust particulates	9901	0.2129	0.000024	8,760	3.06E-06	3.06E-06
70257	BLOCK 43 - NON-PER ICES - DIESEL	Diesel exhaust particulates	9901	3.1916	0.000364	8,760	4.59E-05	4.59E-05
70258	BLOCK 66 - NON-PER ICES - DIESEL	Diesel exhaust particulates	9901	0.0454	0.000005	8,760	6.53E-07	6.53E-07
70259	BLOCK 5 - NON-PER ICES - DIESEL	Diesel exhaust particulates	9901	5.6590	0.000646	8,760	8.14E-05	8.14E-05
70260	BLOCK 44 - NON-PER ICES - DIESEL	Diesel exhaust particulates	9901	16.1988	0.001849	8,760	2.33E-04	2.33E-04
70261	BLOCK 46 - NON-PER ICES - DIESEL	Diesel exhaust particulates	9901	3.5570	0.000406	8,760	5.12E-05	5.12E-05
70262	BLOCK 11 - NON-PER ICES - DIESEL	Diesel exhaust particulates	9901	0.5767	0.000066	8,760	8.30E-06	8.30E-06
70263	BLOCK 56 - NON-PER ICES - DIESEL	Diesel exhaust particulates	9901	0.6214	0.000071	8,760	8.94E-06	8.94E-06
70264	BLOCK 16 - NON-PER ICES - DIESEL	Diesel exhaust particulates	9901	8.5499	0.000976	8,760	1.23E-04	1.23E-04
70265	BLOCK 78 - NON-PER ICES - DIESEL	Diesel exhaust particulates	9901	0.5767	0.000066	8,760	8.30E-06	8.30E-06
70266	BLOCK 37 - NON-PER ICES - DIESEL	Diesel exhaust particulates	9901	0.7612	0.000087	8,760	1.09E-05	1.09E-05
70267	U100 H-100 HTR SOUTH	Lead compounds	1128	0.0893	0.000013	6,972	1.28E-06	1.61E-06
70267	U100 H-100 HTR SOUTH	Formaldehyde	50-00-0	56.4182	0.008092	6,972	8.11E-04	1.02E-03
70267	U100 H-100 HTR SOUTH	Carbon disulfide	75-15-0	0.3659	0.000052	6,972	5.26E-06	6.61E-06
70267	U100 H-100 HTR SOUTH	Methyl ethyl ketone	78-93-3	1.3782	0.000198	6,972	1.98E-05	2.49E-05
70267	U100 H-100 HTR SOUTH	Phenanthrene (PAHs)	85-01-8	0.0007	0.000000	6,972	1.05E-08	1.32E-08
70267	U100 H-100 HTR SOUTH	Naphthalene	91-20-3	0.0022	0.000000	6,972	3.15E-08	3.96E-08
70267	U100 H-100 HTR SOUTH	2-Methyl naphthalene (PAHs)	91-57-6	0.0008	0.000000	6,972	1.14E-08	1.44E-08
70267	U100 H-100 HTR SOUTH	Acrolein	107-02-8	4.0741	0.000584	6,972	5.86E-05	7.36E-05
70267	U100 H-100 HTR SOUTH	Phenol	108-95-2	0.9586	0.000137	6,972	1.38E-05	1.73E-05
70267	U100 H-100 HTR SOUTH	Propylene	115-07-1	35.9478	0.005156	6,972	5.17E-04	6.50E-04
70267	U100 H-100 HTR SOUTH	Pyrene	129-00-0	0.0002	0.000000	6,972	3.39E-09	4.25E-09
70267	U100 H-100 HTR SOUTH	Dibenzofuran	132-64-9	0.0000	0.000000	6,972	1.47E-11	1.85E-11
70267	U100 H-100 HTR SOUTH	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	6,972	1.80E-09	2.26E-09
70267	U100 H-100 HTR SOUTH	Fluoranthene (PAHs)	206-44-0	0.0003	0.000000	6,972	3.78E-09	4.75E-09
70267	U100 H-100 HTR SOUTH	Aluminum	7429-90-5	3.5543	0.000510	6,972	5.11E-05	6.42E-05
70267	U100 H-100 HTR SOUTH	Manganese compounds	7439-96-5	0.0633	0.000009	6,972	9.11E-07	1.14E-06
70267	U100 H-100 HTR SOUTH	Mercury compounds	7439-97-6	0.0131	0.000002	6,972	1.88E-07	2.37E-07
70267	U100 H-100 HTR SOUTH	Nickel compounds	7440-02-0	0.1016	0.000015	6,972	1.46E-06	1.84E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70267	U100 H-100 HTR SOUTH	Antimony	7440-36-0	0.0020	0.000000	6,972	2.92E-08	3.67E-08
70267	U100 H-100 HTR SOUTH	Barium	7440-39-3	0.1459	0.000021	6,972	2.10E-06	2.64E-06
70267	U100 H-100 HTR SOUTH	Cadmium	7440-43-9	0.0068	0.000001	6,972	9.78E-08	1.23E-07
70267	U100 H-100 HTR SOUTH	Chromium compounds	7440-47-3	0.0182	0.000003	6,972	2.62E-07	3.29E-07
70267	U100 H-100 HTR SOUTH	Cobalt compounds	7440-48-4	0.0033	0.000000	6,972	4.80E-08	6.03E-08
70267	U100 H-100 HTR SOUTH	Copper compounds	7440-50-8	0.0648	0.000009	6,972	9.32E-07	1.17E-06
70267	U100 H-100 HTR SOUTH	Zinc compounds	7440-66-6	0.4256	0.000061	6,972	6.12E-06	7.69E-06
70267	U100 H-100 HTR SOUTH	Ammonia	7664-41-7	58.6749	0.008416	6,972	8.44E-04	1.06E-03
70267	U100 H-100 HTR SOUTH	Sulfuric acid	7664-93-9	74.7224	0.010717	6,972	1.07E-03	1.35E-03
70267	U100 H-100 HTR SOUTH	Phosphorus	7723-14-0	0.5041	0.000072	6,972	7.25E-06	9.11E-06
70267	U100 H-100 HTR SOUTH	Hydrogen sulfide	7783-06-4	0.2887	0.000041	6,972	4.15E-06	5.22E-06
70267	U100 H-100 HTR SOUTH	Chromium, hexavalent	18540-29-9	0.0000	0.000000	6,972	6.28E-10	7.89E-10
70268	U100 H-101 HTR SOUTH	Lead compounds	1128	0.0589	0.000008	6,972	8.47E-07	1.06E-06
70268	U100 H-101 HTR SOUTH	Formaldehyde	50-00-0	37.1879	0.005334	6,972	5.35E-04	6.72E-04
70268	U100 H-101 HTR SOUTH	Carbon disulfide	75-15-0	0.2412	0.000035	6,972	3.47E-06	4.36E-06
70268	U100 H-101 HTR SOUTH	Methyl ethyl ketone	78-93-3	0.9084	0.000130	6,972	1.31E-05	1.64E-05
70268	U100 H-101 HTR SOUTH	Phenanthrene (PAHs)	85-01-8	0.0005	0.000000	6,972	6.91E-09	8.68E-09
70268	U100 H-101 HTR SOUTH	Naphthalene	91-20-3	0.0014	0.000000	6,972	2.08E-08	2.61E-08
70268	U100 H-101 HTR SOUTH	2-Methyl naphthalene (PAHs)	91-57-6	0.0005	0.000000	6,972	7.53E-09	9.47E-09
70268	U100 H-101 HTR SOUTH	Acrolein	107-02-8	2.6854	0.000385	6,972	3.86E-05	4.85E-05
70268	U100 H-101 HTR SOUTH	Phenol	108-95-2	0.6319	0.000091	6,972	9.09E-06	1.14E-05
70268	U100 H-101 HTR SOUTH	Propylene	115-07-1	23.6949	0.003399	6,972	3.41E-04	4.28E-04
70268	U100 H-101 HTR SOUTH	Pyrene	129-00-0	0.0002	0.000000	6,972	2.23E-09	2.80E-09
70268	U100 H-101 HTR SOUTH	Dibenzofuran	132-64-9	0.0000	0.000000	6,972	9.69E-12	1.22E-11
70268	U100 H-101 HTR SOUTH	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	6,972	1.18E-09	1.49E-09
70268	U100 H-101 HTR SOUTH	Fluoranthene (PAHs)	206-44-0	0.0002	0.000000	6,972	2.49E-09	3.13E-09
70268	U100 H-101 HTR SOUTH	Aluminum	7429-90-5	2.3428	0.000336	6,972	3.37E-05	4.23E-05
70268	U100 H-101 HTR SOUTH	Manganese compounds	7439-96-5	0.0418	0.000006	6,972	6.01E-07	7.55E-07
70268	U100 H-101 HTR SOUTH	Mercury compounds	7439-97-6	0.0086	0.000001	6,972	1.24E-07	1.56E-07
70268	U100 H-101 HTR SOUTH	Nickel compounds	7440-02-0	0.0669	0.000010	6,972	9.63E-07	1.21E-06
70268	U100 H-101 HTR SOUTH	Antimony	7440-36-0	0.0013	0.000000	6,972	1.93E-08	2.42E-08
70268	U100 H-101 HTR SOUTH	Barium	7440-39-3	0.0962	0.000014	6,972	1.38E-06	1.74E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70268	U100 H-101 HTR SOUTH	Cadmium	7440-43-9	0.0045	0.000001	6,972	6.45E-08	8.10E-08
70268	U100 H-101 HTR SOUTH	Chromium compounds	7440-47-3	0.0120	0.000002	6,972	1.73E-07	2.17E-07
70268	U100 H-101 HTR SOUTH	Cobalt compounds	7440-48-4	0.0022	0.000000	6,972	3.16E-08	3.97E-08
70268	U100 H-101 HTR SOUTH	Copper compounds	7440-50-8	0.0427	0.000006	6,972	6.14E-07	7.72E-07
70268	U100 H-101 HTR SOUTH	Zinc compounds	7440-66-6	0.2805	0.000040	6,972	4.03E-06	5.07E-06
70268	U100 H-101 HTR SOUTH	Ammonia	7664-41-7	38.6754	0.005547	6,972	5.56E-04	6.99E-04
70268	U100 H-101 HTR SOUTH	Sulfuric acid	7664-93-9	48.6662	0.006980	6,972	7.00E-04	8.79E-04
70268	U100 H-101 HTR SOUTH	Phosphorus	7723-14-0	0.3322	0.000048	6,972	4.78E-06	6.00E-06
70268	U100 H-101 HTR SOUTH	Hydrogen sulfide	7783-06-4	0.1903	0.000027	6,972	2.74E-06	3.44E-06
70268	U100 H-101 HTR SOUTH	Chromium, hexavalent	18540-29-9	0.0000	0.000000	6,972	4.14E-10	5.20E-10
70269	U100 H-102 HTR SOUTH	Lead compounds	1128	0.0461	0.000007	6,972	6.63E-07	8.33E-07
70269	U100 H-102 HTR SOUTH	Formaldehyde	50-00-0	29.1139	0.004176	6,972	4.19E-04	5.26E-04
70269	U100 H-102 HTR SOUTH	Carbon disulfide	75-15-0	0.1888	0.000027	6,972	2.72E-06	3.41E-06
70269	U100 H-102 HTR SOUTH	Methyl ethyl ketone	78-93-3	0.7112	0.000102	6,972	1.02E-05	1.29E-05
70269	U100 H-102 HTR SOUTH	Phenanthrene (PAHs)	85-01-8	0.0004	0.000000	6,972	5.41E-09	6.79E-09
70269	U100 H-102 HTR SOUTH	Naphthalene	91-20-3	0.0011	0.000000	6,972	1.63E-08	2.04E-08
70269	U100 H-102 HTR SOUTH	2-Methyl naphthalene (PAHs)	91-57-6	0.0004	0.000000	6,972	5.90E-09	7.41E-09
70269	U100 H-102 HTR SOUTH	Acrolein	107-02-8	2.1024	0.000302	6,972	3.02E-05	3.80E-05
70269	U100 H-102 HTR SOUTH	Phenol	108-95-2	0.4947	0.000071	6,972	7.12E-06	8.94E-06
70269	U100 H-102 HTR SOUTH	Propylene	115-07-1	18.5504	0.002661	6,972	2.67E-04	3.35E-04
70269	U100 H-102 HTR SOUTH	Pyrene	129-00-0	0.0001	0.000000	6,972	1.75E-09	2.19E-09
70269	U100 H-102 HTR SOUTH	Dibenzofuran	132-64-9	0.0000	0.000000	6,972	7.59E-12	9.53E-12
70269	U100 H-102 HTR SOUTH	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	6,972	9.27E-10	1.17E-09
70269	U100 H-102 HTR SOUTH	Fluoranthene (PAHs)	206-44-0	0.0001	0.000000	6,972	1.95E-09	2.45E-09
70269	U100 H-102 HTR SOUTH	Aluminum	7429-90-5	1.8342	0.000263	6,972	2.64E-05	3.31E-05
70269	U100 H-102 HTR SOUTH	Manganese compounds	7439-96-5	0.0327	0.000005	6,972	4.70E-07	5.91E-07
70269	U100 H-102 HTR SOUTH	Mercury compounds	7439-97-6	0.0068	0.000001	6,972	9.73E-08	1.22E-07
70269	U100 H-102 HTR SOUTH	Nickel compounds	7440-02-0	0.0524	0.000008	6,972	7.54E-07	9.47E-07
70269	U100 H-102 HTR SOUTH	Antimony	7440-36-0	0.0010	0.000000	6,972	1.51E-08	1.89E-08
70269	U100 H-102 HTR SOUTH	Barium	7440-39-3	0.0753	0.000011	6,972	1.08E-06	1.36E-06
70269	U100 H-102 HTR SOUTH	Cadmium	7440-43-9	0.0035	0.000001	6,972	5.05E-08	6.34E-08
70269	U100 H-102 HTR SOUTH	Chromium compounds	7440-47-3	0.0094	0.000001	6,972	1.35E-07	1.70E-07

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70269	U100 H-102 HTR SOUTH	Cobalt compounds	7440-48-4	0.0017	0.000000	6,972	2.48E-08	3.11E-08
70269	U100 H-102 HTR SOUTH	Copper compounds	7440-50-8	0.0334	0.000005	6,972	4.81E-07	6.04E-07
70269	U100 H-102 HTR SOUTH	Zinc compounds	7440-66-6	0.2196	0.000031	6,972	3.16E-06	3.97E-06
70269	U100 H-102 HTR SOUTH	Ammonia	7664-41-7	30.2784	0.004343	6,972	4.36E-04	5.47E-04
70269	U100 H-102 HTR SOUTH	Sulfuric acid	7664-93-9	39.2483	0.005629	6,972	5.65E-04	7.09E-04
70269	U100 H-102 HTR SOUTH	Phosphorus	7723-14-0	0.2601	0.000037	6,972	3.74E-06	4.70E-06
70269	U100 H-102 HTR SOUTH	Hydrogen sulfide	7783-06-4	0.1490	0.000021	6,972	2.14E-06	2.69E-06
70269	U100 H-102 HTR SOUTH	Chromium, hexavalent	18540-29-9	0.0000	0.000000	6,972	3.24E-10	4.07E-10
70270	U100 H-103 HTR SOUTH	Lead compounds	1128	0.0322	0.000005	6,972	4.63E-07	5.82E-07
70270	U100 H-103 HTR SOUTH	Formaldehyde	50-00-0	20.3314	0.002916	6,972	2.92E-04	3.67E-04
70270	U100 H-103 HTR SOUTH	Carbon disulfide	75-15-0	0.1319	0.000019	6,972	1.90E-06	2.38E-06
70270	U100 H-103 HTR SOUTH	Methyl ethyl ketone	78-93-3	0.4967	0.000071	6,972	7.14E-06	8.98E-06
70270	U100 H-103 HTR SOUTH	Phenanthrene (PAHs)	85-01-8	0.0003	0.000000	6,972	3.78E-09	4.75E-09
70270	U100 H-103 HTR SOUTH	Naphthalene	91-20-3	0.0008	0.000000	6,972	1.14E-08	1.43E-08
70270	U100 H-103 HTR SOUTH	2-Methyl naphthalene (PAHs)	91-57-6	0.0003	0.000000	6,972	4.12E-09	5.18E-09
70270	U100 H-103 HTR SOUTH	Acrolein	107-02-8	1.4682	0.000211	6,972	2.11E-05	2.65E-05
70270	U100 H-103 HTR SOUTH	Phenol	108-95-2	0.3455	0.000050	6,972	4.97E-06	6.24E-06
70270	U100 H-103 HTR SOUTH	Propylene	115-07-1	12.9545	0.001858	6,972	1.86E-04	2.34E-04
70270	U100 H-103 HTR SOUTH	Pyrene	129-00-0	0.0001	0.000000	6,972	1.22E-09	1.53E-09
70270	U100 H-103 HTR SOUTH	Dibenzofuran	132-64-9	0.0000	0.000000	6,972	5.30E-12	6.66E-12
70270	U100 H-103 HTR SOUTH	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0000	0.000000	6,972	6.48E-10	8.14E-10
70270	U100 H-103 HTR SOUTH	Fluoranthene (PAHs)	206-44-0	0.0001	0.000000	6,972	1.36E-09	1.71E-09
70270	U100 H-103 HTR SOUTH	Aluminum	7429-90-5	1.2809	0.000184	6,972	1.84E-05	2.31E-05
70270	U100 H-103 HTR SOUTH	Manganese compounds	7439-96-5	0.0228	0.000003	6,972	3.28E-07	4.13E-07
70270	U100 H-103 HTR SOUTH	Mercury compounds	7439-97-6	0.0047	0.000001	6,972	6.79E-08	8.53E-08
70270	U100 H-103 HTR SOUTH	Nickel compounds	7440-02-0	0.0366	0.000005	6,972	5.26E-07	6.61E-07
70270	U100 H-103 HTR SOUTH	Antimony	7440-36-0	0.0007	0.000000	6,972	1.05E-08	1.32E-08
70270	U100 H-103 HTR SOUTH	Barium	7440-39-3	0.0526	0.000008	6,972	7.56E-07	9.50E-07
70270	U100 H-103 HTR SOUTH	Cadmium	7440-43-9	0.0025	0.000000	6,972	3.53E-08	4.43E-08
70270	U100 H-103 HTR SOUTH	Chromium compounds	7440-47-3	0.0066	0.000001	6,972	9.44E-08	1.19E-07
70270	U100 H-103 HTR SOUTH	Cobalt compounds	7440-48-4	0.0012	0.000000	6,972	1.73E-08	2.17E-08
70270	U100 H-103 HTR SOUTH	Copper compounds	7440-50-8	0.0234	0.000003	6,972	3.36E-07	4.22E-07

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70270	U100 H-103 HTR SOUTH	Zinc compounds	7440-66-6	0.1534	0.000022	6,972	2.21E-06	2.77E-06
70270	U100 H-103 HTR SOUTH	Ammonia	7664-41-7	21.1447	0.003033	6,972	3.04E-04	3.82E-04
70270	U100 H-103 HTR SOUTH	Sulfuric acid	7664-93-9	26.7569	0.003838	6,972	3.85E-04	4.84E-04
70270	U100 H-103 HTR SOUTH	Phosphorus	7723-14-0	0.1816	0.000026	6,972	2.61E-06	3.28E-06
70270	U100 H-103 HTR SOUTH	Hydrogen sulfide	7783-06-4	0.1040	0.000015	6,972	1.50E-06	1.88E-06
70270	U100 H-103 HTR SOUTH	Chromium, hexavalent	18540-29-9	0.0000	0.000000	6,972	2.26E-10	2.84E-10
70271	U100 H-104 HTR SOUTH	Lead compounds	1128	0.0181	0.000003	6,972	2.61E-07	3.28E-07
70271	U100 H-104 HTR SOUTH	Formaldehyde	50-00-0	11.4536	0.001643	6,972	1.65E-04	2.07E-04
70271	U100 H-104 HTR SOUTH	Carbon disulfide	75-15-0	0.0743	0.000011	6,972	1.07E-06	1.34E-06
70271	U100 H-104 HTR SOUTH	Methyl ethyl ketone	78-93-3	0.2798	0.000040	6,972	4.02E-06	5.06E-06
70271	U100 H-104 HTR SOUTH	Phenanthrene (PAHs)	85-01-8	0.0001	0.000000	6,972	2.13E-09	2.67E-09
70271	U100 H-104 HTR SOUTH	Naphthalene	91-20-3	0.0004	0.000000	6,972	6.40E-09	8.04E-09
70271	U100 H-104 HTR SOUTH	2-Methyl naphthalene (PAHs)	91-57-6	0.0002	0.000000	6,972	2.32E-09	2.92E-09
70271	U100 H-104 HTR SOUTH	Acrolein	107-02-8	0.8271	0.000119	6,972	1.19E-05	1.49E-05
70271	U100 H-104 HTR SOUTH	Phenol	108-95-2	0.1946	0.000028	6,972	2.80E-06	3.52E-06
70271	U100 H-104 HTR SOUTH	Propylene	115-07-1	7.2979	0.001047	6,972	1.05E-04	1.32E-04
70271	U100 H-104 HTR SOUTH	Pyrene	129-00-0	0.0000	0.000000	6,972	6.87E-10	8.63E-10
70271	U100 H-104 HTR SOUTH	Dibenzofuran	132-64-9	0.0000	0.000000	6,972	2.98E-12	3.75E-12
70271	U100 H-104 HTR SOUTH	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0000	0.000000	6,972	3.65E-10	4.58E-10
70271	U100 H-104 HTR SOUTH	Fluoranthene (PAHs)	206-44-0	0.0001	0.000000	6,972	7.67E-10	9.64E-10
70271	U100 H-104 HTR SOUTH	Aluminum	7429-90-5	0.7216	0.000103	6,972	1.04E-05	1.30E-05
70271	U100 H-104 HTR SOUTH	Manganese compounds	7439-96-5	0.0129	0.000002	6,972	1.85E-07	2.32E-07
70271	U100 H-104 HTR SOUTH	Mercury compounds	7439-97-6	0.0027	0.000000	6,972	3.83E-08	4.81E-08
70271	U100 H-104 HTR SOUTH	Nickel compounds	7440-02-0	0.0206	0.000003	6,972	2.97E-07	3.73E-07
70271	U100 H-104 HTR SOUTH	Antimony	7440-36-0	0.0004	0.000000	6,972	5.93E-09	7.45E-09
70271	U100 H-104 HTR SOUTH	Barium	7440-39-3	0.0296	0.000004	6,972	4.26E-07	5.35E-07
70271	U100 H-104 HTR SOUTH	Cadmium	7440-43-9	0.0014	0.000000	6,972	1.99E-08	2.50E-08
70271	U100 H-104 HTR SOUTH	Chromium compounds	7440-47-3	0.0037	0.000001	6,972	5.32E-08	6.68E-08
70271	U100 H-104 HTR SOUTH	Cobalt compounds	7440-48-4	0.0007	0.000000	6,972	9.74E-09	1.22E-08
70271	U100 H-104 HTR SOUTH	Copper compounds	7440-50-8	0.0132	0.000002	6,972	1.89E-07	2.38E-07
70271	U100 H-104 HTR SOUTH	Zinc compounds	7440-66-6	0.0864	0.000012	6,972	1.24E-06	1.56E-06
70271	U100 H-104 HTR SOUTH	Ammonia	7664-41-7	11.9118	0.001709	6,972	1.71E-04	2.15E-04

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70271	U100 H-104 HTR SOUTH	Sulfuric acid	7664-93-9	15.2388	0.002186	6,972	2.19E-04	2.75E-04
70271	U100 H-104 HTR SOUTH	Phosphorus	7723-14-0	0.1023	0.000015	6,972	1.47E-06	1.85E-06
70271	U100 H-104 HTR SOUTH	Hydrogen sulfide	7783-06-4	0.0586	0.000008	6,972	8.43E-07	1.06E-06
70271	U100 H-104 HTR SOUTH	Chromium, hexavalent	18540-29-9	0.0000	0.000000	6,972	1.28E-10	1.60E-10
70272	U80 B-101 WEST STACK	Lead compounds	1128	0.0807	0.000010	8,165	1.16E-06	1.25E-06
70272	U80 B-101 WEST STACK	Formaldehyde	50-00-0	50.9767	0.006243	8,165	7.33E-04	7.87E-04
70272	U80 B-101 WEST STACK	Carbon disulfide	75-15-0	0.3306	0.000040	8,165	4.76E-06	5.10E-06
70272	U80 B-101 WEST STACK	Methyl ethyl ketone	78-93-3	1.2453	0.000153	8,165	1.79E-05	1.92E-05
70272	U80 B-101 WEST STACK	Phenanthrene (PAHs)	85-01-8	0.0007	0.000000	8,165	9.47E-09	1.02E-08
70272	U80 B-101 WEST STACK	Naphthalene	91-20-3	0.0020	0.000000	8,165	2.85E-08	3.06E-08
70272	U80 B-101 WEST STACK	2-Methyl naphthalene (PAHs)	91-57-6	0.0007	0.000000	8,165	1.03E-08	1.11E-08
70272	U80 B-101 WEST STACK	Acrolein	107-02-8	3.6811	0.000451	8,165	5.29E-05	5.68E-05
70272	U80 B-101 WEST STACK	Phenol	108-95-2	0.8662	0.000106	8,165	1.25E-05	1.34E-05
70272	U80 B-101 WEST STACK	Propylene	115-07-1	32.4806	0.003978	8,165	4.67E-04	5.01E-04
70272	U80 B-101 WEST STACK	Pyrene	129-00-0	0.0002	0.000000	8,165	3.06E-09	3.28E-09
70272	U80 B-101 WEST STACK	Dibenzofuran	132-64-9	0.0000	0.000000	8,165	1.33E-11	1.42E-11
70272	U80 B-101 WEST STACK	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	8,165	1.62E-09	1.74E-09
70272	U80 B-101 WEST STACK	Fluoranthene (PAHs)	206-44-0	0.0002	0.000000	8,165	3.41E-09	3.66E-09
70272	U80 B-101 WEST STACK	Aluminum	7429-90-5	3.2115	0.000393	8,165	4.62E-05	4.96E-05
70272	U80 B-101 WEST STACK	Manganese compounds	7439-96-5	0.0572	0.000007	8,165	8.23E-07	8.83E-07
70272	U80 B-101 WEST STACK	Mercury compounds	7439-97-6	0.0118	0.000001	8,165	1.70E-07	1.83E-07
70272	U80 B-101 WEST STACK	Nickel compounds	7440-02-0	0.0918	0.000011	8,165	1.32E-06	1.42E-06
70272	U80 B-101 WEST STACK	Antimony	7440-36-0	0.0018	0.000000	8,165	2.64E-08	2.83E-08
70272	U80 B-101 WEST STACK	Barium	7440-39-3	0.1318	0.000016	8,165	1.90E-06	2.03E-06
70272	U80 B-101 WEST STACK	Cadmium	7440-43-9	0.0061	0.000001	8,165	8.84E-08	9.48E-08
70272	U80 B-101 WEST STACK	Chromium compounds	7440-47-3	0.0165	0.000002	8,165	2.37E-07	2.54E-07
70272	U80 B-101 WEST STACK	Cobalt compounds	7440-48-4	0.0030	0.000000	8,165	4.34E-08	4.65E-08
70272	U80 B-101 WEST STACK	Copper compounds	7440-50-8	0.0586	0.000007	8,165	8.42E-07	9.04E-07
70272	U80 B-101 WEST STACK	Zinc compounds	7440-66-6	0.3845	0.000047	8,165	5.53E-06	5.93E-06
70272	U80 B-101 WEST STACK	Ammonia	7664-41-7	53.0158	0.006493	8,165	7.63E-04	8.18E-04
70272	U80 B-101 WEST STACK	Sulfuric acid	7664-93-9	4.7378	0.000580	8,165	6.81E-05	7.31E-05
70272	U80 B-101 WEST STACK	Phosphorus	7723-14-0	0.4554	0.000056	8,165	6.55E-06	7.03E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70272	U80 B-101 WEST STACK	Hydrogen sulfide	7783-06-4	0.2608	0.000032	8,165	3.75E-06	4.03E-06
70272	U80 B-101 WEST STACK	Chromium, hexavalent	18540-29-9	0.0000	0.000000	8,165	5.68E-10	6.09E-10
70273	U80 B-102 WEST STACK	Lead compounds	1128	0.0372	0.000005	8,165	5.36E-07	5.75E-07
70273	U80 B-102 WEST STACK	Formaldehyde	50-00-0	23.5257	0.002881	8,165	3.38E-04	3.63E-04
70273	U80 B-102 WEST STACK	Carbon disulfide	75-15-0	0.1526	0.000019	8,165	2.19E-06	2.35E-06
70273	U80 B-102 WEST STACK	Methyl ethyl ketone	78-93-3	0.5747	0.000070	8,165	8.27E-06	8.87E-06
70273	U80 B-102 WEST STACK	Phenanthrene (PAHs)	85-01-8	0.0003	0.000000	8,165	4.37E-09	4.69E-09
70273	U80 B-102 WEST STACK	Naphthalene	91-20-3	0.0009	0.000000	8,165	1.31E-08	1.41E-08
70273	U80 B-102 WEST STACK	2-Methyl naphthalene (PAHs)	91-57-6	0.0003	0.000000	8,165	4.77E-09	5.11E-09
70273	U80 B-102 WEST STACK	Acrolein	107-02-8	1.6988	0.000208	8,165	2.44E-05	2.62E-05
70273	U80 B-102 WEST STACK	Phenol	108-95-2	0.3997	0.000049	8,165	5.75E-06	6.17E-06
70273	U80 B-102 WEST STACK	Propylene	115-07-1	14.9898	0.001836	8,165	2.16E-04	2.31E-04
70273	U80 B-102 WEST STACK	Pyrene	129-00-0	0.0001	0.000000	8,165	1.41E-09	1.51E-09
70273	U80 B-102 WEST STACK	Dibenzofuran	132-64-9	0.0000	0.000000	8,165	6.13E-12	6.58E-12
70273	U80 B-102 WEST STACK	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	8,165	7.49E-10	8.04E-10
70273	U80 B-102 WEST STACK	Fluoranthene (PAHs)	206-44-0	0.0001	0.000000	8,165	1.58E-09	1.69E-09
70273	U80 B-102 WEST STACK	Aluminum	7429-90-5	1.4821	0.000182	8,165	2.13E-05	2.29E-05
70273	U80 B-102 WEST STACK	Manganese compounds	7439-96-5	0.0264	0.000003	8,165	3.80E-07	4.08E-07
70273	U80 B-102 WEST STACK	Mercury compounds	7439-97-6	0.0055	0.000001	8,165	7.86E-08	8.43E-08
70273	U80 B-102 WEST STACK	Nickel compounds	7440-02-0	0.0423	0.000005	8,165	6.09E-07	6.53E-07
70273	U80 B-102 WEST STACK	Antimony	7440-36-0	0.0008	0.000000	8,165	1.22E-08	1.31E-08
70273	U80 B-102 WEST STACK	Barium	7440-39-3	0.0608	0.000007	8,165	8.75E-07	9.39E-07
70273	U80 B-102 WEST STACK	Cadmium	7440-43-9	0.0028	0.000000	8,165	4.08E-08	4.38E-08
70273	U80 B-102 WEST STACK	Chromium compounds	7440-47-3	0.0076	0.000001	8,165	1.09E-07	1.17E-07
70273	U80 B-102 WEST STACK	Cobalt compounds	7440-48-4	0.0014	0.000000	8,165	2.00E-08	2.15E-08
70273	U80 B-102 WEST STACK	Copper compounds	7440-50-8	0.0270	0.000003	8,165	3.89E-07	4.17E-07
70273	U80 B-102 WEST STACK	Zinc compounds	7440-66-6	0.1775	0.000022	8,165	2.55E-06	2.74E-06
70273	U80 B-102 WEST STACK	Ammonia	7664-41-7	24.4667	0.002997	8,165	3.52E-04	3.78E-04
70273	U80 B-102 WEST STACK	Sulfuric acid	7664-93-9	2.7493	0.000337	8,165	3.95E-05	4.24E-05
70273	U80 B-102 WEST STACK	Phosphorus	7723-14-0	0.2102	0.000026	8,165	3.02E-06	3.24E-06
70273	U80 B-102 WEST STACK	Hydrogen sulfide	7783-06-4	0.1204	0.000015	8,165	1.73E-06	1.86E-06
70273	U80 B-102 WEST STACK	Chromium, hexavalent	18540-29-9	0.0000	0.000000	8,165	2.62E-10	2.81E-10

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70274	U80 B-103 WEST STACK	Lead compounds	1128	0.0444	0.000005	8,165	6.38E-07	6.85E-07
70274	U80 B-103 WEST STACK	Formaldehyde	50-00-0	28.0408	0.003434	8,165	4.03E-04	4.33E-04
70274	U80 B-103 WEST STACK	Carbon disulfide	75-15-0	0.1819	0.000022	8,165	2.62E-06	2.81E-06
70274	U80 B-103 WEST STACK	Methyl ethyl ketone	78-93-3	0.6850	0.000084	8,165	9.85E-06	1.06E-05
70274	U80 B-103 WEST STACK	Phenanthrene (PAHs)	85-01-8	0.0004	0.000000	8,165	5.21E-09	5.59E-09
70274	U80 B-103 WEST STACK	Naphthalene	91-20-3	0.0011	0.000000	8,165	1.57E-08	1.68E-08
70274	U80 B-103 WEST STACK	2-Methyl naphthalene (PAHs)	91-57-6	0.0004	0.000000	8,165	5.68E-09	6.10E-09
70274	U80 B-103 WEST STACK	Acrolein	107-02-8	2.0249	0.000248	8,165	2.91E-05	3.12E-05
70274	U80 B-103 WEST STACK	Phenol	108-95-2	0.4764	0.000058	8,165	6.85E-06	7.35E-06
70274	U80 B-103 WEST STACK	Propylene	115-07-1	17.8667	0.002188	8,165	2.57E-04	2.76E-04
70274	U80 B-103 WEST STACK	Pyrene	129-00-0	0.0001	0.000000	8,165	1.68E-09	1.81E-09
70274	U80 B-103 WEST STACK	Dibenzofuran	132-64-9	0.0000	0.000000	8,165	7.31E-12	7.84E-12
70274	U80 B-103 WEST STACK	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	8,165	8.93E-10	9.58E-10
70274	U80 B-103 WEST STACK	Fluoranthene (PAHs)	206-44-0	0.0001	0.000000	8,165	1.88E-09	2.02E-09
70274	U80 B-103 WEST STACK	Aluminum	7429-90-5	1.7666	0.000216	8,165	2.54E-05	2.73E-05
70274	U80 B-103 WEST STACK	Manganese compounds	7439-96-5	0.0315	0.000004	8,165	4.53E-07	4.86E-07
70274	U80 B-103 WEST STACK	Mercury compounds	7439-97-6	0.0065	0.000001	8,165	9.37E-08	1.01E-07
70274	U80 B-103 WEST STACK	Nickel compounds	7440-02-0	0.0505	0.000006	8,165	7.26E-07	7.79E-07
70274	U80 B-103 WEST STACK	Antimony	7440-36-0	0.0010	0.000000	8,165	1.45E-08	1.56E-08
70274	U80 B-103 WEST STACK	Barium	7440-39-3	0.0725	0.000009	8,165	1.04E-06	1.12E-06
70274	U80 B-103 WEST STACK	Cadmium	7440-43-9	0.0034	0.000000	8,165	4.86E-08	5.22E-08
70274	U80 B-103 WEST STACK	Chromium compounds	7440-47-3	0.0091	0.000001	8,165	1.30E-07	1.40E-07
70274	U80 B-103 WEST STACK	Cobalt compounds	7440-48-4	0.0017	0.000000	8,165	2.39E-08	2.56E-08
70274	U80 B-103 WEST STACK	Copper compounds	7440-50-8	0.0322	0.000004	8,165	4.63E-07	4.97E-07
70274	U80 B-103 WEST STACK	Zinc compounds	7440-66-6	0.2115	0.000026	8,165	3.04E-06	3.26E-06
70274	U80 B-103 WEST STACK	Ammonia	7664-41-7	29.1624	0.003572	8,165	4.19E-04	4.50E-04
70274	U80 B-103 WEST STACK	Sulfuric acid	7664-93-9	2.5077	0.000307	8,165	3.61E-05	3.87E-05
70274	U80 B-103 WEST STACK	Phosphorus	7723-14-0	0.2505	0.000031	8,165	3.60E-06	3.87E-06
70274	U80 B-103 WEST STACK	Hydrogen sulfide	7783-06-4	0.1435	0.000018	8,165	2.06E-06	2.21E-06
70274	U80 B-103 WEST STACK	Chromium, hexavalent	18540-29-9	0.0000	0.000000	8,165	3.12E-10	3.35E-10
70275	U80 B-104 WEST STACK	Lead compounds	1128	0.0519	0.000006	8,165	7.46E-07	8.00E-07
70275	U80 B-104 WEST STACK	Formaldehyde	50-00-0	32.7710	0.004014	8,165	4.71E-04	5.06E-04

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70275	U80 B-104 WEST STACK	Carbon disulfide	75-15-0	0.2125	0.000026	8,165	3.06E-06	3.28E-06
70275	U80 B-104 WEST STACK	Methyl ethyl ketone	78-93-3	0.8005	0.000098	8,165	1.15E-05	1.24E-05
70275	U80 B-104 WEST STACK	Phenanthrene (PAHs)	85-01-8	0.0004	0.000000	8,165	6.09E-09	6.53E-09
70275	U80 B-104 WEST STACK	Naphthalene	91-20-3	0.0013	0.000000	8,165	1.83E-08	1.97E-08
70275	U80 B-104 WEST STACK	2-Methyl naphthalene (PAHs)	91-57-6	0.0005	0.000000	8,165	6.64E-09	7.12E-09
70275	U80 B-104 WEST STACK	Acrolein	107-02-8	2.3665	0.000290	8,165	3.40E-05	3.65E-05
70275	U80 B-104 WEST STACK	Phenol	108-95-2	0.5568	0.000068	8,165	8.01E-06	8.59E-06
70275	U80 B-104 WEST STACK	Propylene	115-07-1	20.8806	0.002557	8,165	3.00E-04	3.22E-04
70275	U80 B-104 WEST STACK	Pyrene	129-00-0	0.0001	0.000000	8,165	1.97E-09	2.11E-09
70275	U80 B-104 WEST STACK	Dibenzofuran	132-64-9	0.0000	0.000000	8,165	8.54E-12	9.16E-12
70275	U80 B-104 WEST STACK	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0001	0.000000	8,165	1.04E-09	1.12E-09
70275	U80 B-104 WEST STACK	Fluoranthene (PAHs)	206-44-0	0.0002	0.000000	8,165	2.20E-09	2.36E-09
70275	U80 B-104 WEST STACK	Aluminum	7429-90-5	2.0646	0.000253	8,165	2.97E-05	3.19E-05
70275	U80 B-104 WEST STACK	Manganese compounds	7439-96-5	0.0368	0.000005	8,165	5.29E-07	5.68E-07
70275	U80 B-104 WEST STACK	Mercury compounds	7439-97-6	0.0076	0.000001	8,165	1.09E-07	1.17E-07
70275	U80 B-104 WEST STACK	Nickel compounds	7440-02-0	0.0590	0.000007	8,165	8.48E-07	9.10E-07
70275	U80 B-104 WEST STACK	Antimony	7440-36-0	0.0012	0.000000	8,165	1.70E-08	1.82E-08
70275	U80 B-104 WEST STACK	Barium	7440-39-3	0.0847	0.000010	8,165	1.22E-06	1.31E-06
70275	U80 B-104 WEST STACK	Cadmium	7440-43-9	0.0040	0.000000	8,165	5.68E-08	6.10E-08
70275	U80 B-104 WEST STACK	Chromium compounds	7440-47-3	0.0106	0.000001	8,165	1.52E-07	1.63E-07
70275	U80 B-104 WEST STACK	Cobalt compounds	7440-48-4	0.0019	0.000000	8,165	2.79E-08	2.99E-08
70275	U80 B-104 WEST STACK	Copper compounds	7440-50-8	0.0376	0.000005	8,165	5.41E-07	5.81E-07
70275	U80 B-104 WEST STACK	Zinc compounds	7440-66-6	0.2472	0.000030	8,165	3.56E-06	3.81E-06
70275	U80 B-104 WEST STACK	Ammonia	7664-41-7	34.0818	0.004174	8,165	4.90E-04	5.26E-04
70275	U80 B-104 WEST STACK	Sulfuric acid	7664-93-9	3.0873	0.000378	8,165	4.44E-05	4.76E-05
70275	U80 B-104 WEST STACK	Phosphorus	7723-14-0	0.2928	0.000036	8,165	4.21E-06	4.52E-06
70275	U80 B-104 WEST STACK	Hydrogen sulfide	7783-06-4	0.1677	0.000021	8,165	2.41E-06	2.59E-06
70275	U80 B-104 WEST STACK	Chromium, hexavalent	18540-29-9	0.0000	0.000000	8,165	3.65E-10	3.92E-10
70276	U80 B-105 WEST STACK	Lead compounds	1128	0.0091	0.000001	8,165	1.31E-07	1.41E-07
70276	U80 B-105 WEST STACK	Formaldehyde	50-00-0	5.7590	0.000705	8,165	8.28E-05	8.89E-05
70276	U80 B-105 WEST STACK	Carbon disulfide	75-15-0	0.0374	0.000005	8,165	5.37E-07	5.76E-07
70276	U80 B-105 WEST STACK	Methyl ethyl ketone	78-93-3	0.1407	0.000017	8,165	2.02E-06	2.17E-06

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70276	U80 B-105 WEST STACK	Phenanthrene (PAHs)	85-01-8	0.0001	0.000000	8,165	1.07E-09	1.15E-09
70276	U80 B-105 WEST STACK	Naphthalene	91-20-3	0.0002	0.000000	8,165	3.22E-09	3.45E-09
70276	U80 B-105 WEST STACK	2-Methyl naphthalene (PAHs)	91-57-6	0.0001	0.000000	8,165	1.17E-09	1.25E-09
70276	U80 B-105 WEST STACK	Acrolein	107-02-8	0.4159	0.000051	8,165	5.98E-06	6.42E-06
70276	U80 B-105 WEST STACK	Phenol	108-95-2	0.0979	0.000012	8,165	1.41E-06	1.51E-06
70276	U80 B-105 WEST STACK	Propylene	115-07-1	3.6694	0.000449	8,165	5.28E-05	5.66E-05
70276	U80 B-105 WEST STACK	Pyrene	129-00-0	0.0000	0.000000	8,165	3.46E-10	3.71E-10
70276	U80 B-105 WEST STACK	Dibenzofuran	132-64-9	0.0000	0.000000	8,165	1.50E-12	1.61E-12
70276	U80 B-105 WEST STACK	Benzo(g,h,i)perylene (PAHs)	191-24-2	0.0000	0.000000	8,165	1.83E-10	1.97E-10
70276	U80 B-105 WEST STACK	Fluoranthene (PAHs)	206-44-0	0.0000	0.000000	8,165	3.86E-10	4.14E-10
70276	U80 B-105 WEST STACK	Aluminum	7429-90-5	0.3628	0.000044	8,165	5.22E-06	5.60E-06
70276	U80 B-105 WEST STACK	Manganese compounds	7439-96-5	0.0065	0.000001	8,165	9.30E-08	9.98E-08
70276	U80 B-105 WEST STACK	Mercury compounds	7439-97-6	0.0013	0.000000	8,165	1.92E-08	2.06E-08
70276	U80 B-105 WEST STACK	Nickel compounds	7440-02-0	0.0104	0.000001	8,165	1.49E-07	1.60E-07
70276	U80 B-105 WEST STACK	Antimony	7440-36-0	0.0002	0.000000	8,165	2.98E-09	3.20E-09
70276	U80 B-105 WEST STACK	Barium	7440-39-3	0.0149	0.000002	8,165	2.14E-07	2.30E-07
70276	U80 B-105 WEST STACK	Cadmium	7440-43-9	0.0007	0.000000	8,165	9.99E-09	1.07E-08
70276	U80 B-105 WEST STACK	Chromium compounds	7440-47-3	0.0019	0.000000	8,165	2.67E-08	2.87E-08
70276	U80 B-105 WEST STACK	Cobalt compounds	7440-48-4	0.0003	0.000000	8,165	4.90E-09	5.26E-09
70276	U80 B-105 WEST STACK	Copper compounds	7440-50-8	0.0066	0.000001	8,165	9.51E-08	1.02E-07
70276	U80 B-105 WEST STACK	Zinc compounds	7440-66-6	0.0434	0.000005	8,165	6.25E-07	6.70E-07
70276	U80 B-105 WEST STACK	Ammonia	7664-41-7	5.9894	0.000734	8,165	8.61E-05	9.24E-05
70276	U80 B-105 WEST STACK	Sulfuric acid	7664-93-9	0.6507	0.000080	8,165	9.36E-06	1.00E-05
70276	U80 B-105 WEST STACK	Phosphorus	7723-14-0	0.0515	0.000006	8,165	7.40E-07	7.94E-07
70276	U80 B-105 WEST STACK	Hydrogen sulfide	7783-06-4	0.0295	0.000004	8,165	4.24E-07	4.55E-07
70276	U80 B-105 WEST STACK	Chromium, hexavalent	18540-29-9	0.0000	0.000000	8,165	6.41E-11	6.88E-11
70277	U110 CT-310	Benzene	71-43-2	0.0655	0.000008	8,160	9.42E-07	1.01E-06
70277	U110 CT-310	Ethylene	74-85-1	0.0617	0.000008	8,160	8.87E-07	9.52E-07
70277	U110 CT-310	1,2,4-Trimethylbenzene	95-63-6	0.1715	0.000021	8,160	2.47E-06	2.65E-06
70277	U110 CT-310	Ethyl benzene	100-41-4	0.1214	0.000015	8,160	1.75E-06	1.87E-06
70277	U110 CT-310	Styrene	100-42-5	0.0462	0.000006	8,160	6.65E-07	7.14E-07
70277	U110 CT-310	1,3-Butadiene	106-99-0	1.0510	0.000129	8,160	1.51E-05	1.62E-05

Table B-1 – Emission Rates By Source and Substance

Release ID No.	Source Name	Substance Name	CAS No.	Annual Average (lb/yr)	Maximum Hourly (lb/hr)	Op Hours	Annual Average (g/s)	Maximum Hourly (g/s)
70277	U110 CT-310	Toluene	108-88-3	0.5009	0.000061	8,160	7.21E-06	7.74E-06
70277	U110 CT-310	Hexane	110-54-3	0.2043	0.000025	8,160	2.94E-06	3.16E-06
70277	U110 CT-310	Cyclohexane	110-82-7	0.0491	0.000006	8,160	7.07E-07	7.59E-07
70277	U110 CT-310	Propylene	115-07-1	21.2037	0.002598	8,160	3.05E-04	3.27E-04
70277	U110 CT-310	Xylenes (mixed isomers)	1330-20-7	0.6532	0.000080	8,160	9.39E-06	1.01E-05
70277	U110 CT-310	Hydrogen sulfide	7783-06-4	1.5703	0.000192	8,160	2.26E-05	2.42E-05