

Bureau of Air Quality Synthetic Minor Construction Permit

United States Department of Energy – Savannah River Site Savannah River Nuclear Solutions LLC Building 730-4B Aiken, South Carolina 29808-0001 Aiken County

In accordance with the provisions of the Pollution Control Act, Sections 48-1-50(5), 48-1-100(A), and 48-1-110(a), the 1976 Code of Laws of South Carolina, as amended, and South Carolina Regulation 61-62, Air Pollution Control Regulations and Standards, the Bureau of Air Quality authorizes the construction of this facility and the equipment specified herein in accordance with the plans, specifications, and other information submitted in the construction permit application received on October 20, 2021, as amended. All official correspondence, plans, permit applications, and written statements are an integral part of the permit. Any false information or misrepresentation in the application for a construction permit may be grounds for permit revocation.

The construction and subsequent operation of this facility is subject to and conditioned upon the terms, limitations, standards, and schedules contained herein or as specified by this permit and its accompanying attachments.

Permit Number:0080-0041-C5Issue Date:February 4, 2022

Steve McCaslin, P. E., Director Air Permitting Division Bureau of Air Quality

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RECORD OF REVISIONS

Date	Description of Changes	

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PROJECT DESCRIPTION

Permission is hereby granted to switch from formic acid to glycolic acid in the Defense Waste Processing Facility (DWPF).

EQUIPMENT

Equipment Equipment Description		Control Device ID	Emission Point ID
1765	Sludge Tank (5800 gallons)	None	EP-S D P 001
177S	Recycle Tank (5800 gallons)	None	EP-S D P 001
178S	Precipitate Tank (5800 gallons)	None	EP-S D P 001
275S	Precipitate Reactor Feed Tank	None	EP-S D P 007
264S	Decontamination Waste Treatment Tank	None	EP-S D P 007
256S	CDC-SME Isolation Pot	CD-J 0005	EP-S D P 007
278S	Offgas Condensate Tank 1	None	EP-S D P 007
488S	Offgas Condensate Tank 2	None	EP-S D P 007
3885	Crane Decon Feed Tank	None	EP-S D P 007
267S	Sludge Receipt and Adjustment Tank (SRAT)	CD-J 0005	EP-S D P 007
266S	Slurry Mix Evaporator (SME)	CD-J 0005	EP-S D P 007
270S	Melter	None	EP-S D P 007
111S	Nitric Acid Dilution Tank (100 gallons)	None	EP-S D P 009
109S	Nitric Acid Decon Feed Tank (1100 gallons)	None	EP-S D P 009
105S	Additive Mix Feed Tank (180 gallons)	None	EP-S D P 009
101S	Sodium Nitrite Feed Tank (600 gallons)	None	EP-S D P 009
100S	Nitric Acid Feed Tank (600 gallons)	None	EP-S D P 009
0985	Acid Drain Catch Tank (1200 gallons)	None	EP-S D P 009

CONTROL DEVICES

Control Device ID	Control Device Description	Pollutant(s) Controlled
CD-J 0005	Condenser (voluntary)	Mercury (Elemental)

Condition Number	Conditions
1	Emission Unit ID: 16 Equipment ID: 266S, 267S, 270S, 275S, 264S, 256S, 278S, 488S, 388S, 176S, 177S, 178S, 111S, 109S,

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Condition Number	Conditions			
	105S, 101S, 100S, 098S (S.C. Regulation 61-62.5, Standard No. 4, Section IX) Where construction or modification began after December 31, 1985, emissions from these sources (including fugitive emissions) shall not exhibit a opacity greater than 20%, each.			
	The owner/operator shall perform a visual inspection on a semiannual basis during source operation. Logs shall be kept to record all visual inspections, noting color, duration, density (heavy or light), cause, and corrective action taken for any abnormal emissions. If a source did not operate during the required visual inspection time frame, the log shall indicate such. The owner/operator shall submit semiannual reports. The report shall include records of abnormal emissions, if any, and corrective actions taken. If the unit did not operate during the semiannual period, the report shall state so.			
	Visual inspection means a qualitative observation of opacity during daylight hours. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be skilled and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water.			
	Emission Unit ID: 16 Equipment ID: 266S, 267S, 270S, 275S, 264S, 256S, 278S, 488S, 388S, 176S, 177S, 178S, 111S,			
2	(S.C. Regulation 61-62.5, Standard No. 4, Section VIII) Particulate matter emissions shall be limited the rate specified by use of the following equations: For process weight rates less than or equal to 30 tons per hour $E = (F) 4.10P^{0.67}$ and For process weight rates greater than 30 tons per hour $E = (F) 55.0P^{0.11} - 40$ Where E = the allowable emission rate in pounds per hour P = process weight rate in tons per hour F = effect factor from Table B in S.C. Regulation 61-62.5, Standard No. 4		l be limited to	
	For the purposes of compliance with this condition, the p	process boundaries are defined	d as follows:	
	Process/Equipment IDs	Max Process Weight Rate (ton/hr)		
	266S, 267S, 270S, 275S, 264S, 256S, 278S, 488S, 388S, 176S, 177S, 178S, 111S, 1095, 1055, 1015, 1005, 0985	0.24		

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Condition Number	Conditions		
	Emission Unit ID: 16 Equipment ID: 266S, 267S, 270S, 275S, 264S, 256S, 278S, 488S, 388S, 176S, 177S, 178S, 111S, 109S, 105S, 101S, 100S, 098S		
3	(S.C. Regulation 61-62.1, Section II(E)) This project is a potential significant increase for nitrogen oxides (NO _x) emissions. The facility has requested federally enforceable operating limitations to limit the potential to emit from this source to less than 64.3 tons of NO _x per year to avoid a PSD Significant Increase of 40.0 tons of NO _x per year.		
	Emission Unit ID: 16 Equipment ID: 266S, 267S, 270S, 275S, 264S, 256S, 278S, 488S, 388S, 176S, 177S, 178S, 111S, 109S, 105S, 101S, 100S, 098S		
4	The owner/operator shall maintain production records and any other records necessary to determine nitrogen oxides (NO _x) emissions. NO _x emissions shall be calculated on a monthly basis, and a twelve-month rolling sum shall be calculated for total NO _x emissions. Emissions from malfunctions are required to be quantified and included in the calculations. The twelve-month rolling sum shall demonstrate that the increase from this project is less than 40.0 tons. Reports of the calculated values and the twelve-month rolling sum, calculated for each month in the reporting period, shall be submitted semiannually.		
	An algorithm, including example calculations and emission factors, explaining the method used to determine emission rates shall only be included in the initial report. Subsequent submittals of the algorithm are required within 30 days of the change if the algorithm or basis for emissions is modified or the Department requests additional information.		
	Emission Unit ID: 16 Equipment ID: 266S, 267S, 270S, 275S, 264S, 256S, 278S, 488S, 388S		
5	All emissions points, duct work and other locations that are required to be tested, shall be designed and constructed in a manner to facilitate testing in accordance with applicable EPA approved source testing methods; including, but not be limited to, methods specifying test port location and sizing criteria.		
	For any source test required under an applicable standard or permit condition, the owner, operator, or representative shall comply with S.C. Regulation 61-62.1, Section IV - Source Tests.		
	Unless approved otherwise by the Department, the owner, operator, or representative shall ensure that source tests are conducted while the source is operating at the maximum expected production rate or other production rate or operating parameter which would result in the highest emissions for the pollutants being tested. Some sources may have to spike fuels or raw materials to avoid being subjected to a more restrictive feed or process rate. Any source test performed at a production rate		

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Condition Number	Conditions		
	less than the rated capacity may result in permit limits on emission rates, including limits on production if necessary.		
	 When conducting source tests subject to this section, the owner, operator, or representative shall provide the following: Department access to the facility to observe source tests; Sampling ports adequate for test methods; Safe sampling site(s); Safe access to sampling site(s); Utilities for sampling and testing equipment; and Equipment and supplies necessary for safe testing of a source. 		
	The owner or operator shall comply with any limits that result from conducting a source test at less than rated capacity. A copy of the most recent Department issued source test summary letter, whether it imposes a limit or not, shall be maintained with the operating permit, for each source that is required to conduct a source test.		
	Site-specific test plans and amendments, notifications, and source test reports shall be subn the Manager of the Source Evaluation Section, Bureau of Air Quality.		
6	Emission Unit ID: 16 Equipment ID: 266S, 267S, 270S, 275S, 264S, 256S, 278S, 488S, 388S An initial source test for nitrogen oxides (NOx) emissions shall be conducted within 180 days after the transition period from Glycolic Acid to Formic Acid is complete. Formic Acid residual will be worked off as part of batch processing transition period. A notification will be made to SCDHEC once the transition period is complete and the 180 day period begins. The source test will be used to verify NOx emissions. The Sludge Receipt and Adjustment Tank (SRAT) (Equip. ID 267S) and the Melter (Equip. ID 270S) must be in operation during the source test.		
7	Emission Unit ID: 16 The owner or operator shall continue to operate under all applicable requirements, including emission limits and standards, testing, monitoring, record keeping, and reporting under the existing Title V Operating Permit (TV-0080-0041) that are not changed or contravened by this construction permit.		

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GENERAL FACILITY WIDE

Condition Number	Conditions	
1	The permittee shall pay permit fees to the Department in accordance with the requirements of S.C. Regulation 61-30, Environmental Protection Fees.	
2	 In the event of an emergency, as defined in S.C. Regulation 61-62.1, Section II(L), the owner or operator may document an emergency situation through properly signed, contemporaneous operating logs, and other relevant evidence that verify: An emergency occurred, and the owner or operator can identify the cause(s) of the emergency; The permitted source was at the time the emergency occurred being properly operated; During the period of the emergency, the owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and The owner or operator gave a verbal notification of the emergency to the Department within 24 hours of the time when emission limitations were exceeded, followed by a written report within 30 days. The written report shall include, at a minimum, the information required by S.C. Regulation 61-62.1, Section II(J)(1)(c)(i) through (J)(1)(c)(viii). The written report shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. 	
3	 (S.C. Regulation 61-62.1, Section II(O)) Upon presentation of credentials and other documents as may be required by law, the owner or operator shall allow the Department or an authorized representative to perform the following: Enter the facility where emissions-related activity is conducted, or where records must be kept under the conditions of the permit. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit. As authorized by the Federal Clean Air Act and/or the S.C. Pollution Control Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. 	
4	(S.C. Regulation 61-62.1, Section II(J)(1)(a)) No applicable law, regulation, or standard will be contravened.	
5	(S.C. Regulation 61-62.1, Section II(J)(1)(e)) Any owner or operator who constructs or operates a source or modification not in accordance with the application submitted pursuant to this regulation or with the terms of any approval to construct, or who commences construction after the effective date of these regulations without applying for and receiving approval hereunder, shall be subject to enforcement action.	

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GENERAL RECORD KEEPING AND REPORTING

Condition Number	Conditions		
1	(S.C. Regulation 61-62.1, Section II(J)(1)(g)) A copy of the Department issued construction and/or operating permit must be kept readily available at the facility at all times. The owner or operator shall maintain such operational records; make reports; install, use, and maintain monitoring equipment or methods; sample and analyze emissions or discharges in accordance with prescribed methods at locations, intervals, and procedures as the Department shall prescribe; and provide such other information as the Department reasonably may require. All records required to demonstrate compliance with the limits established under this permit shall be maintained on site for a period of at least five (5) years from the date the record was generated and shall be made available to a Department representative upon request.		
2	Reporting required in this permit, shall be submitted in a timely manner as directed in the Periodic Reporting Schedule of this permit.		
3	All reports and notifications required under this permit shall be submitted to the person indicated in the specific condition at the following address: 2600 Bull Street Columbia, SC 29201 The contact information for the local Environmental Affairs Regional office can be found at: http://www.scdhec.gov		
4	(S.C. Regulation 61-62.1, Section II(A)(3)) The owner/operator shall submit written notification to the Director of Air Permitting of the date construction is commenced, postmarked within thirty (30) days after such date.		
5	Unless elsewhere specified within this permit, all reports required under this permit shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality.		
6	 (S.C. Regulation 61-62.1, Section II(J)(1)(c)) For sources not required to have continuous emission monitors, any malfunction of air pollution control equipment or system, process upset, or other equipment failure which results in discharges of air contaminants lasting for one (1) hour or more and which are greater than those discharges described for normal operation in the permit application, shall be reported to the Department within twenty-four (24) hours after the beginning of the occurrence and a written report shall be submitted to the Department within thirty (30) days. The written report shall include, at a minimum, the following: The identity of the stack and/or emission point where the excess emissions occurred; The magnitude of excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the excess emissions; The identity of the equipment causing the excess emissions; The nature and cause of such excess emissions; The steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunction; The steps taken to limit the excess emissions; and, Documentation that the air pollution control equipment, process equipment, or processes 		

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GENERAL RECORD KEEPING AND REPORTING

Condition Number	Conditions	
	were at all times maintained and operated, to the maximum extent practicable, in a manne consistent with good practice for minimizing emissions.	
	The initial twenty-four (24) hour notification should be made to the Department's local Environmental Affairs Regional office.	
	The written report should be sent to the Manager of the Technical Management Section, Bureau of Air Quality and the local Environmental Affairs Regional office.	

REPORTING SCHEDULES

Compliance Monitoring Report Submittal Frequency	Reporting Period (Begins on the startup date of the source)	Report Due Date
	January-March	April 30
Quartark	April-June	July 30
Quarterly	July-September	October 30
	October-December	January 30
	January-June	July 30
Comingroup	April-September	October 30
Semiannuai	July-December	January 30
	October-March	April 30
	January-December	January 30
Annual	April-March	April 30
Annual	July-June	July 30
	October-September	October 30
Note: This reporting schedule does no	ot supersede any federal reporting req	uirements including but not limited to
40 CFR Part 60, 40 CFR Part 61, and 40 CFR Part 63. All federal reports must meet the reporting time frames specified		
in the federal standard unless the Dep	partment or EPA approves a change.	,

in the federal standard unless the Department or EPA approves a change.

PERMIT EXPIRATION AND EXTENSION

Condition Number	Conditions	
1	(S.C. Regulation 61-62.1, Section II(A)(4) and (5) and S.C. Regulation 61-62.1, Section II(J)(1)(f)) Approval to construct shall become invalid if construction:	
	a. is not commenced within 18 months after receipt of such approval;	

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PERMIT EXPIRATION AND EXTENSION

Condition Number	Conditions							
	b. is discontinued for a period of 18 months or more; or							
	c. is not completed within a reasonable time as deemed by the Department.							
	The Department may extend the construction permit for an additional 18-month period upon a satisfactory showing that an extension is justified. This request must be made prior to the permit expiration.							
	This provision does not apply to the time period between construction of the approved phases of a phased construction project; each phase must commence construction within eighteen (18) months of the projected and approved commencement date.							

PERMIT TO OPERATE

Condition Number	Conditions
1	(S.C. Regulation 61-62.1 Section II(F)(2) When a Department issued construction permit includes only emission limits, monitoring, reporting, and/or other requirements that do not establish engineering or construction specifications for the project, the owner or operator may operate the source in compliance with the terms and conditions of the construction permit until the operating permit is issued by the Department.
2	(S.C. Regulation 61-62.1, Section II(F)(1)) The owner or operator shall submit written notification to the Department of the actual date of initial startup of each new or altered source, postmarked within fifteen (15) days after such date. Any source that is required to obtain an air quality construction permit issued by the Department must obtain an operating permit when the new or altered source is placed into operation and shall comply with the requirements of this section.
3	(S.C. Regulation 61-62.1, Section II(F)(4)(a)) For sources covered by an effective Title V operating permit, the modification request required by Regulation 61 62.70 shall serve as the request to operate for the purposes of S.C. Regulation 61-62.1, Section II(F). The request should be made using the appropriate Title V modification form.

AMBIENT AIR STANDARDS REQUIREMENTS

Condition Number	Conditions
1	Air dispersion modeling (or other method) has demonstrated that this facility's operation will not interfere with the attainment and maintenance of any state or federal ambient air standard. Any changes in the parameters used in this demonstration may require a review by the facility to determine continuing compliance with these standards. These potential changes include any

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AMBIENT AIR STANDARDS REQUIREMENTS

Condition Number	Conditions
	decrease in stack height, decrease in stack velocity, increase in stack diameter, decrease in stack exit temperature, increase in building height or building additions, increase in emission rates, decrease in distance between stack and property line, changes in vertical stack orientation, and installation of a rain cap that impedes vertical flow. Parameters that are not required in the determination will not invalidate the demonstration if they are modified. The emission rates used in the determination are listed in Attachment - Emission Rates for Ambient Air Standards of this permit. Higher emission rates may be administratively incorporated into Attachment - Emission Rates for Ambient Air Standards of this permit provided a demonstration using these higher emission rates shows the attainment and maintenance of any state or federal ambient air quality standard or with any other applicable requirement. Variations from the input parameters in the demonstration shall not constitute a violation unless the maximum allowable ambient concentrations identified in the standard are exceeded.
	The owner/operator shall maintain this facility at or below the emission rates as listed in Attachment - Emission Rates for Ambient Air Standards, not to exceed the pollutant limitations of this permit. Should the facility wish to increase the emission rates listed in Attachment - Emission Rates for Ambient Air Standards, not to exceed the pollutant limitations in the body of this permit, it may do so by the administrative process specified above. This is a State Only enforceable requirement.

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The emission rates listed herein are not considered enforceable limitations but are used to evaluate ambient air quality impact. Until the Department makes a determination that a facility is causing or contributing to an exceedance of a state or federal ambient air quality standard, increases to these emission rates are not in themselves considered violations of these ambient air quality standards (see Ambient Air Standards Requirements).

AMBIENT AIR QUALITY STANDARDS – STANDARD NO. 2							
Emission Doint ID	Emission Rates (lbs/hr)						
Emission Point ID	PM ₁₀	PM _{2.5}	SO ₂	NOx	СО	Lead	
APF2	2.28	2.08	1.00	13.17	23.97	1.92E-03	
APF3	0.66	0.44	6.09E-02	2.85	1.43	4.32E-04	
BQH1	0.17	0.16	1.55E-02	1.65	0.39	8.42E-05	
FOP1	3.80E-05	7.59E-06				1.39E-09	
GLJ3	0.17	2.49E-02	2.68-03	1.39E-02	0.46	1.82E-03	
GQJ1	0.25	1.04E-02	1.70E-03	1.88E-04	0.18	1.17E-03	
GVJ2	7.86E-02	5.38E-02	1.01E-04	4.13E-02	1.00	5.20E-03	
HSP2				118.26			
HTP57	0.920	0.920					
HWP3	4.43E-02	4.43E-02				2.98E-05	
NBJ16	0.12	0.12	9.02E-04	0.22	0.13	2.93E-02	
NBJ28	4.80	0.96					
SDJ1	0.56	8.49E-02				1.60E-03	
SDP7	1.18E-01	1.18E-01		24.9	2.50	1.69E-06	
SDP9	2.97E-05	2.97E-05					
SDP10	4.24E-03	4.24E-03					
SDP107	1.00E-02	1.00E-02				1.00E-05	
ZDP71	3.12E-02	3.12E-02				1.53E-07	
ZDP88	0.16	0.16				7.64E-07	
ZDP89	0.16	0.16				7.64E-07	
ZDT1	5.50E-02	5.50E-02				2.60E-05	
ZDT2	0.18	0.18				8.67E-06	

TOXIC AIR POLLUTANTS – STANDARD NO. 8					
	Emission Rates (lbs/hr)				
Emission Point ID	Acetaldebyde	Acrylonitrile	Antimony		
	Accunactivac	Aciyionicine	Compounds	Carbon Disulfide	
	75-07-0	107-13-1	N/A	75-15-0	
GLJ3	1.29E-04	2.17E-08	1.02E-06	1.18E-03	
GQJ1			2.44E-06		

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TOXIC AIR POLLUTANTS – STANDARD NO. 8					
	Emission Rates (lbs/hr)				
Emission Point ID	Carbon Tetrachloride	Chlorine	Chloroform	Cumene	
	56-23-5	7782-50-5	67-66-3	98-82-8	
AEJ1	1.14E-04				
AEJ15	3.68E-05		1.85E-04		
DEJ2			5.48E-06	3.93E-03	
GEJ21			5.14E-05		
GLJ3	1.25E-04	7.50E-04			
MEJ4	4.70E-04				
TEJ2	3.27E-02		7.95E-04		
ZDP91			2.63E-05		

TOXIC AIR POLLUTANTS – STANDARD NO. 8					
		Emission R	ates (lbs/hr)		
Emission Point ID	Ethyl Benzene	Benzene	Toluene	m-Xylene	
	100-41-4	71-43-2	108-88-3	108-38-3	
AGT23		1.64E-03			
APT14	2.40E-05	1.48E-05	1.75E-04	4.41E-04	
AYK1		1.01E-01			
AYK2	8.72E-03	4.49E-03	6.19E-02	1.54E-01	
AYK3		8.13E-04			
BQT1	5.71E-06	3.42E-06	4.57E-05	1.15E-04	
BQT2	5.71E-06	3.42E-06	4.57E-05	1.15E-04	
BVJ3	4.09E-02	1.37E-02	1.28E-01	8.29E-02	
BVT1	1.99E-04	6.62E-05	6.28E-04	4.04E-04	
DEJ2	3.88E-03	4.93E-04	1.23E-02		
FST172	9.25E-05	4.75E-04	1.92E-03	1.38E-03	
FST173	9.25E-05	4.75E-04	1.92E-03	1.38E-03	
GLJ3		2.14E-05			
GQJ1		3.06E-04			
GVJ2		3.24E-04			
GYJ3		3.38E-02			
GYK1		3.38E-02			
GYK2	7.56E-04	3.90E-04	5.37E-03	1.34E-02	
GYK3		1.69E-02			
GYK5		8.13E-04			
GYT2		5.65E-03			
GYT5		5.65E-03			

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TOXIC AIR POLLUTANTS – STANDARD NO. 8					
	Emission Rates (lbs/hr)				
Emission Point ID	Ethyl Benzene	Benzene	Toluene	m-Xylene	
	100-41-4	71-43-2	108-88-3	108-38-3	
GYT9		1.67E-03			
HST37	1.14E-06	1.14E-06	7.99E-06	1.94E-05	
HST38	1.14E-06	1.14E-06	7.99E-06	1.94E-05	
HWT138			1.14E-06		
KIT00001	5.58E-06	1.34E-05	3.01E-05		
KYJ1		1.69E-02			
LYK1		1.69E-02			
NBT28	3.42E-06	2.28E-06	2.51E-05	6.28E-05	
NGT305	4.57E-06	2.28E-06	3.20E-05	7.99E-05	
NGT306	4.57E-06	2.28E-06	3.20E-05	7.99E-05	
NGT307		3.46E-03			
NYJ1	1.74E-02	8.97E-03	1.24E-01	3.08E-01	
NYJ2		3.38E-02			
NYT1	7.99E-06	4.57E-06	5.82E-05	1.47E-04	
NYT2		5.65E-03			
PEJ2		6.85E-04	6.85E-04		
SDT7	5.71E-06	3.42E-06	4.11E-05	1.03E-04	
SDT8	5.71E-06	3.42E-06	4.11E-05	1.03E-04	
ZDP91		2.63E-05			

TOXIC AIR POLLUTANTS – STANDARD NO. 8						
	Emission Rates (lbs/hr)					
Emission Point ID	Chromium (+6) Compounds	Manganese Compounds	Mercury	Nickel		
	N/A	N/A	7439-97-6	7440-02-0		
GQJ1	6.63E-05					
GVJ2	1.69E-05			8.17E-07		
HSJ25		1.12E-01				
HTP25	5.65E-02	5.65E-03		3.39E-02		
HTP45	1.07E-02	1.07E-03		6.44E-03		
HTP57		8.17E-02				
HWP3			3.90E-02			
NBJ28		5.76E-02				
SDP1		3.43E-06				
SDP7						
SDP9		1.14E-06				

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TOXIC AIR POLLUTANTS – STANDARD NO. 8						
	Emission Rates (lbs/hr)					
Emission Point ID	Chromium (+6) Compounds	Manganese Compounds	Mercury	Nickel		
	N/A	N/A	7439-97-6	7440-02-0		
SDP10		8.10E-05				

TOXIC AIR POLLUTANTS – STANDARD NO. 8					
	Emission Rates (lbs/hr)				
Emission Point ID	1,4-Dioxane Formaldehyde Hydrogen Sulfide		o-Xylene		
	123-91-1	50-00-0	7783-06-4	95-47-6	
DEJ2				1.85E-03	
GEJ21	1.03E-02				
GLJ3		1.92E-04	2.46E-02		

TOXIC AIR POLLUTANTS – STANDARD NO. 8				
	Emission Rates (lbs/hr)			
Emission Point ID	Nickel Oxide	Nitric Acid	Oxalic Acid	Sodium Hydroxide
	1313-99-1	7697-37-2	144-62-7	1310-73-2
FOP1		7.30E-02		
FOP2		3.85E-04		
HSL1				2.28E-01
HSP2		37.22		
HST36		8.33E-02		
HWP3				4.43E-02
HWP55		2.10E-03	1.77E-02	
HWP57		6.09E-02		
HWT6		6.85E-06		
HWT32		3.83E-04	4.34E-05	
HWT115		7.83E-04		
HWT122			2.93E-03	
HWT132		9.21E-03		
JDP2		1.50E-02		
JDP3				3.60E-03
SDJ1	3.99E-03			
SDP7				
SDP9		7.23E-03		
SDP19				
SDP67		3.80E-03		

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TOXIC AIR POLLUTANTS – STANDARD NO. 8				
	Emission Rates (lbs/hr)			
Emission Point ID	Nickel Oxide	Nitric Acid	Oxalic Acid	Sodium Hydroxide
	1313-99-1	7697-37-2	144-62-7	1310-73-2
SDP107	2.50E-05			
SDT28		1.25E-02		
SDT29		9.44E-03		
SDT47				
ZDT55		2.08E-02		

TOXIC AIR POLLUTANTS – STANDARD NO. 8					
	Emission Rates (lbs/hr)				
Emission Point ID	Hexane	Hydrogen Cyanide	Methanol	Methyl Chloroform	
	110-54-3	74-90-8	67-56-1	71-55-6	
BVJ3	2.76E-02				
BVT1	1.35E-04				
CHIP			4.08E-04		
DEJ2	1.97E-02			6.12E-06	
GLJ3		1.09E-03			
GQJ1		1.12E-06			
GVJ2		8.90E-03			
JDP1			4.00E-03		
KIT00001	2.16E-05				
MEJ4				1.23E-02	
MEP11				2.85E-05	

TOXIC AIR POLLUTANTS – STANDARD NO. 8				
	Emission Rates (lbs/hr)			
Emission Point ID	Methyl Ethyl	Methylene	Methyl-Isobutyl	Nanhthalene
	Ketone	Chloride	Ketone	Napittialene
	78-93-3	75-09-2	108-10-1	91-20-3
DEJ2	6.62E-04	1.56E-03	3.61E-03	
GEJ21	5.14E-04	5.46E-05		
GLJ3		1.10E-01		
GQJ1		1.59E-02		
KIT00001				1.52E-06
MEP2303		2.12E-02		
ZDP91	2.44E-04			

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TOXIC AIR POLLUTANTS – STANDARD NO. 8			
	Emission Rates (lbs/hr)		
Emission Point ID	Vinyl Chloride Vinylidene Chloride		Xylene
	75-01-4	75-35-4	1330-20-7
DEJ2	1.15E-03		4.06E-03
GEJ21	9.27E-05		
KIT00001			7.63E-05
MEJ4		2.97E-03	
PEJ1		6.85E-05	

TOXIC AIR POLLUTANTS – STANDARD NO. 8				
	Emission Rates (lbs/hr)			
Emission Point ID	Tetrachloro-ethylene	Trichloro-ethylene		
	127-18-4	79-01-6		
AEJ1	2.60E-02	3.31E-02		
AEJ2	2.06E-02	4.89E-02		
AEJ3	2.06E-02	4.89E-02		
AEJ4	2.06E-02	4.89E-02		
AEJ5	2.06E-02	4.89E-02		
AEJ6	2.06E-02	4.89E-02		
AEJ7	2.06E-02	4.89E-02		
AEJ8	2.06E-02	4.89E-02		
AEJ9	2.06E-02	4.89E-02		
AEJ10	2.06E-02	4.89E-02		
AEJ11	2.06E-02	4.89E-02		
AEJ14	1.41E-02	9.89E-02		
AEJ15	2.28E-02	6.60E-03		
AEJ16	1.79E-02	9.18E-03		
AGL1	2.56E-02	1.70E-01		
CEP1		7.53E-03		
DEJ2	1.73E-02	1.00E-03		
GEJ13		2.35E-02		
GEJ21	8.49E-05	1.05E-03		
GEP1	1.64E-03	1.05E-01		
GEP11	8.33E-04	5.94E-03		
GEP12	4.68E-03	3.31E-02		
GEP30	9.70E-01	2.67E-01		
GEP32	4.06E-01	1.61E-01		
GEP32A14	8.88E-01	3.02E-02		

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TOXIC AIR POLLUTANTS – STANDARD NO. 8				
	Emission Rates (lbs/hr)			
Emission Point ID	Tetrachloro-ethylene	Trichloro-ethylene		
	127-18-4	79-01-6		
GET1	7.58E-03	3.54E-01		
GLJ3	1.17E-04			
MEJ1	3.17E-01	1.26E-01		
MEJ4	5.02E-02	4.02E-02		
MEJ6	1.26E-01	4.98E-02		
MEJ7	4.57E-03	4.57E-02		
MEJ8	1.286	3.65E-01		
MEJ9	1.14E-01	1.81E-02		
MEP9	4.57E-02	3.62E-02		
MEP10	6.86E-04	1.25E-02		
MEP11	3.58E-02	7.95E-04		
MEP2303	6.722	2.937		
PEJ1	1.60E-04	9.13E-05		
PEJ2	1.30E-02	1.85E-02		
TEJ2	1.49E-02	4.65E-02		
ZDP91	2.28E-06	9.13E-06		