Savannah River
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December 17, 2010

SRNS-J2220-2010-00217
RSM Track #: 10808

Ms. E. J. Basil, Director
Engineering Services Division
Bureau of Air Quality
South Carolina Department of Health and
Environmental Control
2600 Bull Street
Columbia, SC 29201-1708

Dear Ms. Basil:

SAVANNAH RIVER SITE (SRS) PART 70 AIR QUALITY PERMIT TV-0080-0041: REVISION TO RENEWAL APPLICATION – PUBLIC RELEASE VERSION

Ref: Letter, P. C. Carroll to R. B. Thompson, dated September 18, 2007, ESH-EMS-00138.
Letter, Kim A. Wolfe to E. J. Basil, dated June 2, 2009, SRNS-J2220-2009-00036.
Letter, Kim A. Wolfe to E. J. Basil, dated October 22, 2009, SRNS-J2220-2009-00065.
Letter, Kim A. Wolfe to E. J. Basil, dated March 29, 2010, SRNS-J2220-2009-00188.
Letter, Kim A. Wolfe to E. J. Basil, dated April 16, 2010, SRNS-J2220-2010-00067.
Letter, Kim A. Wolfe to E. J. Basil, dated May 24, 2010, SRNS-J2220-2010-00088.

In response to comments and questions received from the permit engineer and air dispersion modeler of the SCDHEC BAQ, the Savannah River Site is submitting the attached revision to the renewal application. This revision does not impact any OUO information.

The letter number associated with this transmittal letter, SRNS-J2220-2010-00217, is contained on each page impacted by this revision as a means of improved configuration control. Summary sheets are provided that describes the changes made within the emission unit tab with this revision. For those emission units that had information that was impacted by this revision, the complete emission unit tab is included.

If there are any questions, please contact me at 803-557-8676.

Sincerely,

Kim A. Wolfe
Environmental Policy, Program and Permits

Enc.

c: J. R. Hughes, SCDHEC-Aiken
S.L. Southern, DOE-SR, 730-B
H. L. Davis, 730-B
J. E. Hyatt, SRNS, 705-3C
K. M. Kostelnik, 705-3C
E. Saldivar, 705-3C
M. R. Eberl, 713-N
T. O. Oliver, 705-3C
J. L. Janssen, 704-C
J. H. Riggsbee, 704-C
V. S. Skalak, 704-C
B. A. Beavers, 704-C
J. T. Stafford, 704-C
M. C. Wright, 742-A
B. C. Blunt, 705-3C
R. E. Robinson, 705-3C
G. C. Fanning, 705-3C
A. R. Mamatey, 705-3C
C. B. Shedrow, 705-3C
O. D. Stevens, SRR, 766-H
D. P. Skiff, 766-H
P. J. Rowan, 766-H
Records Administration, 773-52A

SRS PART 70 AIR QUALITY PERMIT
TV-0080-0041 APPLICATION RENEWAL

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Form A –
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Form B

Facility Plot Plan/Site Map

Facility Wide Process Description

Facility Wide Flow Diagram

EMISSION UNITS

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- A-013
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F-Area

- F-002
  SRNS-J2220-2009-00065

G-Area

- G-004
  SRNS-J2220-2009-00036
  SRNS-J2220-2009-00065

H-Area

- H-001
  SRNS-J2220-2009-00188
- H-002
  SRNS-J2220-2009-00188 Moved to Insignificant Activity List (Form G)
- H-015
- H-019
  SRNS-J2220-2009-00188
- H-020
  SRNS-J2220-2009-00188

VOLUME II

K-Area

- K-001
  SRNS-J2220-2009-00036 – removed from application, abandoned in place
- K-002
  SRNS-J2220-2009-00036
  SRNS-J2220-2009-00065
  SRNS-J2220-2010-00217 – removed from application, abandoned in place

SRS PART 70 AIR QUALITY PERMIT
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- N-020
- N-031
  SRNS-J2220-2009-00188
  SRNS-J2220-2010-00217

S-Area

- S-001
  SRNS-J2220-2009-00065
  SRNS-J2220-2009-00188
- S-002
  SRNS-J2220-2009-00036 – Moved to Insignificant Activity List (Form G)
- S-003
  SRNS-J2220-2009-00036 – Moved to Insignificant Activity List (Form G)

Z-Area

- Z-001
  SRNS-J2220-2009-00065
  SRNS-J2220-2009-00188
  SRNS-J2220-2010-00088

SRS PART 70 AIR QUALITY PERMIT
TV-0080-0041 APPLICATION RENEWAL

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FACILITY WIDE APPLICATION FORMS

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Form G
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Form H
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Form J

Form K

Form OF – Operational Flexibility Request

VOLUME II AIR DISPERSION MODELING

Modeling Application Information

Air Dispersion Modeling Results
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SRNS-J2220-2010-00067
SRNS-J2220-2010-00217

Title V Permit Application
Facility Profile – Form A
Bureau of Air Quality

Please Refer to Instruction Pages Before Completing This Form
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.

FACILITY INFORMATION

1. Company Name for Permit: United States Department of Energy / Savannah River Nuclear Solutions, LLC Savannah River Site			2. Existing State Air Permit Number: TV-0080-0041
3. Business Mailing Address: Savannah River Nuclear Solutions, LLC c/o K. A. Wolfe Building 705-3C	4. City: Aiken	5. State SC	6. Zip Code: 29808-0001
7. Plant Location (Street or Highway: SC Hwy 19/278	8. City: N/A	9. State SC	10. Zip Code: 29808-0001
11. County: Aiken, Barnwell, and Allendale	12. Primary SIC Code: 2819	13. NAICS Code: 221330	
14. EPA (AIRS) Facility Identification No..	15. Latitude: -81.7348	16. Longitude: 33.3388	
17. Date Facility Was Built: 1952			

CONTACT INFOMATION

RESPONISBLE OFFICIAL, AUTHORIZED REPRESENTATIVE:	ENVIRONMENTAL / TECHNICAL CONTACT:
18. Last: Hyatt 19. First: Jeannette	29. Last: Wolfe 30. First: Kim
20. Title: Director –Regulatory Integration & Environmental Services	31. Title: Engineer
21. Mailing Address Line 1: Savannah River Nuclear Solutions, LLC	32. Mailing Address Line 1: Savannah River Nuclear Solutions, LLC
22. Mailing Address Line 2: Building 705-3C	33. Mailing Address Line 2: Building 705-3C
23. City Aiken 24. State: SC 25. Zip Code: 29808-0001	34. City Aiken 35. State: SC 36. Zip Code: 29808-0001
26. Phone No.: (803) 557-6358 27. Fax No.: (803) 557-6306	37. Phone No.: (803) 557-8676 38. Fax No.: (803) 557-6306
28. E-mail Address: Jeannette.Hyatt@srs.gov	39. E-Mail Address kim.wolfe@srs.gov

PURPOSE OF APPLICATION

40. Facility Type:: Conditional Major X Title V:

41. Permit Action New X Renewal

Modification: Administrative Amendment (Submit Form AA) | Minor Modification (Submit Form MM) | Significant Modification (Submit Form SM) | Operational Flexibility (Submit Form OF)

42. Attainment Area Designation: Is the source located within a non-attainment area for any of the criteria air pollutants? X No Yes

If "Yes", Indicate Non-attainment Pollutant(s) $PM_{2.5}$ O_3 (Precursor pollutants to Ozone are NOx and VOC)

SIGNATURES

I certify, to the best of my knowledge and belief, that no undesirable levels of air pollutants will be created and no applicable standards and/or regulations will be contravened or violated. I certify that any application form, report, or compliance certification submitted in this permit application is true, accurate, and complete based on information and belief formed after reasonable inquiry. I understand that any statements and/or descriptions, which are found to be incorrect may result in the immediate revocation of any permit issued for this application.

Jeannette Hyatt 20 Dec 2010

43. Responsible Official Signature/Authorized Representative J. E. Hyatt Title/Position Director —Regulatory Integration & Environmental Services Date

Note* For change or addition of responsible official(s) submit Responsible Official (RO) Notification Form (see attachment E)

CONSULTING FIRM INFOMATION

44. Consulting Firm:		
Preparer Name: 45. Last	46. First	
47. Mailing Address Line 1:		
48. Mailing Address Line 2:		
49. City	50. State:	51. Zip Code:
52. Phone No.:	53. Fax. No.:	54. E-mail Address:

****INCOMPLETE APPLICATIONS WILL BE RETURNED****

Unit K001
Summary of SRNS-J2220-2010-00217 revision:

1. This tab should be removed from renewal application. This equipment has been permanently removed from service. Refer to SRNS-J2220-2010-00202.

Unit N031
Summary of SRNS-J2220-2010-00217 revision:

1. Process description, revised the number of units from 12 to 10. Added brief discussion on modeling revision that resulted in modeling 10/10 of the emission based on fuel cap at A-Area and 2/10 of the emissions based on the fuel cap at D-Area.
2. Form C, removed units 39GA and 463N (39GA has been abandoned in place and 463N has been moved to the insignificant activities list under C-Area as an emergency diesel generator, SRNS-J2220-2010-00206).
3. Form D, Modified form input to reflect the maximum emission rates based on annual fuel cap and associated hourly rate (refer to calculation included in N-031 tab).
4. Form I, page 2 of 5, Modified form input to reflect the maximum emission rates based on annual fuel cap

Title V Permit Application
Emission Unit N-031
Process Description

Emission Unit N-031 is the N-Area Mobile Diesel Equipment Pool that currently consists of ten (10) diesel powered generators and air compressors that are used across the SRS in support of facility outages and various projects which require varying durations of operations. In February 2005, SRS submitted a modification to DHEC requesting that all the Mobile/Portable diesels located in N-area for this type of service (14 units when the modification was submitted), that were individually permitted, be consolidated in to one emission unit. The modification established an annual diesel fuel cap of maximum fuel usage which was the combined total of the fuel consumption limits for the individual units. The fuel cap is part of and not an addition to, the SRS total fuel consumption limit per consecutive 12-months that is specified in the current Part 70 permit condition 4.B.25. The modification also allowed SRS to purchase new internal combustion equipment with a mechanical output of greater than 200 horsepower or greater than 150 Kw, and excess or remove old equipment. The fuel consumption of any new equipment would go against the fuel limit cap for the N-031 Emission Unit.

10/10 of the emissions from the maximum fuel cap of 731,110 gal/yr was modeled at A-Area and 2/10 of the emissions from the maximum fuel cap of 731,110 gal/yr was modeled at D-Area. This revised modeling was incorporated in the SRNS-J2220-2010-00217 revision to the renewal application.

The February, 2005 modification request was incorporated in the SRS Part 70 Air Quality permit in Revision 8, dated 11/22/05.

South Carolina Department of Health and Environmental Control

Title V Permit Application
Emission Unit & Equipment Information – Form C
Bureau of Air Quality

EMISSION UNIT DESCRIPTION
(Table is a description of emission units located at this facility)

1. Emission Unit ID (If the emission unit is on the Insignificant Activity List proceed to Forms G & F)	2. Emission Unit Description/Purpose	3. Control Device
N-031	MOBILE DIESEL EQUIPMENT POOL	NONE

EMISSION UNIT PROCESS DESCRIPTION
(For each emission unit listed above, provide the following emission unit process description information)

1. Emission Unit ID	4. Process Weight Rate (tons/hr)	5. Production Rate (units per time period)	6. Major Product	7. SIC/NAICS Code	8. Comments (Special permit limits, etc.)
N-031	N/A	7.31E+05 GAL/YR	DIESEL POWERED EQUIPMENT	N/A – N/A	NONE

CONTROL DEVICE INFORMATION
(Table is a description of control devices located at this facility)

3. Control Device ID	9. Control Device Description (Manufacturer, Name, Model #, etc.)	10. Installation Date	11. Pollutant(s) Controlled
N/A			

CONTROL DEVICE INFORMATION (CONTINUED)

3. Control Device ID	12. Capture System	13. Capture (%)	14. Removal/ Destruction (%)	15. Removal/ Destruction (Method Used to Determine)	16. Parameter Monitored	17. Exhaust ID	18. Comments (special permit limitations, Fuel info., different capture systems, etc.)
N/A							

EQUIPMENT DESCRIPTION
(For each emission unit please provide a description of the all equipment located at this facility)

1. Emission Unit ID	19. Equipment ID	20. Equipment Description	21. Installation Date (Original and Manufacturer Date and Modification Date)	22. Modification Description	3. Control Device ID	17. Exhaust ID	23. Design Capacity (units)
N-031	411N	MOBILE AIR COMPRESSOR (SRO1334) (215BHP)	INSTALL – 1/1985 MODIFICATION- 11/22/05	CONSOLIDATED IN TO ONE EMISSION UNIT		N GE 0020	750 CFM
N-031	50DN	PORTABLE AIR COMPRESSOR (SRO7776) (315BHP)	INSTALL – 7/1996 MODIFICATION- 11/22/05	CONSOLIDATED IN TO ONE EMISSION UNIT		N GE 0032	235 KW

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South Carolina Department of Health and Environmental Control

Title V Permit Application
Emission Unit & Equipment Information – Form C
Bureau of Air Quality

EQUIPMENT DESCRIPTION
(For each emission unit please provide a description of the all equipment located at this facility)

1. Emission Unit ID	19. Equipment ID	20. Equipment Description	21. Installation Date (Original and Manufacturer Date and Modification Date)	22. Modification Description	3. Control Device ID	17. Exhaust ID	23. Design Capacity (units)
N-031	51DN	PORTABLE DIESEL GENERATOR (SRO7947)(160KW)	INSTALL – 6/1996 MODIFICATION- 11/22/05	CONSOLIDATED IN TO ONE EMISSION UNIT		N GE 0028	160 KW
N-031	52DN	PORTABLE DIESEL GENERATOR (SRO7948)(160KW)	INSTALL – 6/1996 MODIFICATION- 11/22/05	CONSOLIDATED IN TO ONE EMISSION UNIT		N GE 0029	160 KW
N-031	54DN	PORTABLE DIESEL GENERATOR (SRO7950) (160KW)	INSTALL 6/1996 MODIFICATION- 11/22/05	CONSOLIDATED IN TO ONE EMISSION UNIT		N GE 0031	160 KW
N-031	61DN	PORTABLE AIR COMPRESSOR (SRO5262) (315BHP)	INSTALL 6/1998 MODIFICATION- 11/22/05	CONSOLIDATED IN TO ONE EMISSION UNIT		N GE 0039	825 CFM
N-031	62DN	PORTABLE AIR COMPRESSOR (SRO5263) (315BHP)	INSTALL 6/1998 MODIFICATION- 11/22/05	CONSOLIDATED IN TO ONE EMISSION UNIT		N GE 0040	825 CFM
N-031	76DN	PORTABLE AIR COMRESSOR (SRO5232) (335 BHP)	INSTALL 4/2000 MODIFICATION- 11/22/05	CONSOLIDATED IN TO ONE EMISSION UNIT		N GE 0044	825 CFM
N-031	77DN	PORTABLE AIR COMPRESSOR (SRO5289) (335 BHP)	INSTALL 4/2000 MODIFICATION- 11/22/05	CONSOLIDATED IN TO ONE EMISSION UNIT		N GE 0045	825 CFM
N-031	78DN	PORTABLE AIR COMPRESSOR (SRO6933) (335 BHP)	INSTALL 4/2000 MODIFICATION- 11/22/05	CONSOLIDATED IN TO ONE EMISSION UNIT		N GE 0046	825 CFM

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EQUIPMENT DESCRIPTION (CONTINUED)				
19. Equipment ID	24. Primary Fuel Combusted (If Applicable)	25. Secondary Fuel Combusted (If Applicable)	26. Construction Permit ID or Exemption Date (if applicable)	27. Comments (list special permit limitations, fuel info, etc.)
411N	NO. 2 DIESEL	N/A	0080-0041-G	Combined fuel usage shall not to exceed 7.31E+05 gallons per year
50DN	NO. 2 DIESEL	N/A	0080-0041-G-CL	Combined fuel usage shall not to exceed 7.31E+05 gallons per year
51DN	NO. 2 DIESEL	N/A	0080-0041-G-CM	Combined fuel usage shall not to exceed 7.31E+05 gallons per year
52DN	NO. 2 DIESEL	N/A	0080-0041-G-CM	Combined fuel usage shall not to exceed 7.31E+05 gallons per year
54DN	NO. 2 DIESEL	N/A	0080-0041-G-CM	Combined fuel usage shall not to exceed 7.31E+05 gallons per year
61DN	NO. 2 DIESEL	N/A	0080-0041-G-CO	Combined fuel usage shall not to exceed 7.31E+05 gallons per year
62DN	NO. 2 DIESEL	N/A	0080-0041-G-CO	Combined fuel usage shall not to exceed 7.31E+05 gallons per year
76DN	NO. 2 DIESEL	N/A	0080-0041-G-CR	Combined fuel usage shall not to exceed 7.31E+05 gallons per year
77DN	NO. 2 DIESEL	N/A	0080-0041-G-CR	Combined fuel usage shall not to exceed 7.31E+05 gallons per year
78DN	NO. 2 DIESEL	N/A	0080-0041-G-CR	Combined fuel usage shall not to exceed 7.31E+05 gallons per year

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South Carolina Department of Health and Environmental Control

Title V Permit Application
Emission Data for Regulated Pollutants – Form D
Bureau of Air Quality

1. Emission Unit ID: (If the emission unit is on the Insignificant Activity List proceed to Forms G & F)	2. Exhaust Point ID (If applicable)	3. Pollutant:	4. CAS Number (If applicable):	5. Type of Pollutant:	6. Maximum Uncontrolled		7. Maximum Controlled	
					(lb/hr)	(TPY)	(lb/hr)	(TPY)
N-031	*	CARBON MONOXIDE	630 08 0	CRITERIA	2.46E+01	4.83E+01	2.46E+01	4.83E+01
N-031	*	TOTAL PARTICULATE MATTER (PM)		CRITERIA	8.03E+00	1.58E+01	8.03E+00	1.58E+01
N-031	*	PARTICULATE MATTER (10 MICRONS)		CRITERIA	8.03E+00	1.58E+01	8.03E+00	1.58E+01
N-031	*	PARTICULATE MATTER (2.5 MICRONS)		CRITERIA	8.03E+00	1.58E+01	8.03E+00	1.58E+01
N-031	*	NITROGEN DIOXIDE	10102 44 0	CRITERIA	1.14E+02	2.24E+02	1.14E+02	2.24E+02
N-031	*	SULFUR DIOXIDE	7446 9 5	CRITERIA	7.51E+00	1.48E+01	7.51E+00	1.48E+01
N-031	*	VOC (OZONE PRECURSORS)		CRITERIA	9.32E+00	1.83E+01	9.32E+00	1.83E+01
N-031	*	CHROMIUM (+6)		HAP TAP	1.86E-05	3.66E-05	1.86E-05	3.66E-05
N-031	*	CHROMIUM (TOTAL)	7440 47 3	HAP	1.12E-04	2.19E-04	1.12E-04	2.19E-04
N-031	*	POLYCYCLIC ORGANIC MATTER		HAP TAP	4.35E-03	8.55E-03	4.35E-03	8.55E-03
N-031	*	ACETALDEHYDE	75 07 0	HAP TAP	1.99E-02	3.90E-02	1.99E-02	3.90E-02
N-031	*	ACROLEIN	107 02 8	HAP TAP	2.39E-03	4.71E-03	2.39E-03	4.71E-03
N-031	*	ARSENIC	7440 38 2	HAP TAP	2.98E-04	5.85E-04	2.98E-04	5.85E-04
N-031	*	BENZENE	71 43 2	HAP TAP	2.42E-02	4.75E-02	2.42E-02	4.75E-02
N-031	*	BUTADIENE (1, 3-)	106 99 0	HAP TAP	1.01E-03	1.99E-03	1.01E-03	1.99E-03
N-031	*	CADMIUM	7440 43 9	HAP TAP	2.79E-04	5.48E-04	2.79E-04	5.48E-04
N-031	*	CHLOROBENZENE	108 90 7	HAP TAP	3.72E-05	7.31E-05	3.72E-05	7.31E-05
N-031	*	ETHYL BENZENE	100 41 4	HAP TAP	2.03E-03	3.98E-03	2.03E-03	3.98E-03
N-031	*	FORMALDEHYDE	50 00 0	HAP TAP	3.06E-02	6.00E-02	3.06E-02	6.00E-02
N-031	*	HEXANE	110 54 3	HAP TAP	5.00E-03	9.83E-03	5.00E-03	9.83E-03

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1. Emission Unit ID: (If the emission unit is on the Insignificant Activity List proceed to Forms G & F)	2. Exhaust Point ID (if applicable)	3. Pollutant:	4. CAS Number (if applicable):	5. Type of Pollutant:	6. Maximum Uncontrolled		7. Maximum Controlled	
					(lb/hr)	(TPY)	(lb/hr)	(TPY)
N-031	*	HYDROCHLORIC ACID (HYDROGEN CHLORIDE)	7647 01 0	HAP TAP	3.47E-02	6.81E-02	3.47E-02	6.81E-02
N-031	*	LEAD	7439 92 1	CRITERIA HAP	1.54E-03	3.03E-03	1.54E-03	3.03E-03
N-031	*	MANGANESE	7439 96 5	HAP TAP	5.77E-04	1.13E-03	5.77E-04	1.13E-03
N-031	*	MERCURY (ELEMENTAL)	7439 97 6	HAP TAP	3.72E-04	7.31E-04	3.72E-04	7.31E-04
N-031	*	NAPHTHALENE	91 20 3	HAP TAP	2.20E-03	4.32E-03	2.20E-03	4.32E-03
N-031	*	NICKEL	7440 02 0	HAP TAP	7.25E-04	1.43E-03	7.25E-04	1.43E-03
N-031	*	SELENIUM	7782 49 2	HAP TAP	4.09E-04	8.04E-04	4.09E-04	8.04E-04
N-031	*	TOLUENE	108 88 3	HAP TAP	1.06E-02	2.08E-02	1.06E-02	2.08E-02
N-031	*	XYLENE (MIXED ISOMERS)(XYLOL)	1330 20 7	HAP TAP	7.38E-03	1.45E-02	7.38E-03	1.45E-02

* Emission rates based on max fuel cap of 731,110 gal/yr and 1.86E02 gal/hr. This is a mobile pool of equipment. 10/10 of these emission rates were modeled at A-Area and 2/10 were modeled at D-Area.

1. Emission Unit ID:	2. Exhaust Point ID (if applicable)	3. Pollutant:	8. Estimation Method:	9. Comments:
N-031	*	CARBON MONOXIDE	EPA AP-42	N/A
N-031	*	TOTAL PARTICULATE MATTER (PM)	EPA AP-42	N/A
N-031	*	PARTICULATE MATTER (10 MICRONS)	EPA AP-42	N/A
N-031	*	PARTICULATE MATTER (2.5 MICRONS)	EPA AP-42	N/A
N-031	*	OXIDES OF NITROGEN (NOX)	EPA AP-42	N/A
N-031	*	OXIDES OF SULFUR (SOX)	EPA AP-42	N/A
N-031	*	VOC (OZONE PRECURSORS)	EPA AP-42	N/A

SRSN-J2220-2010-00217

Title V Permit Application
Emission Data for Regulated Pollutants – Form D
Bureau of Air Quality

1. Emission Unit ID:	2. Exhaust Point ID (if applicable)	3. Pollutant:	8. Estimation Method:	9. Comments:
N-031	*	CHROMIUM (+6)	VCAPCD	N/A
N-031	*	CHROMIUM (TOTAL)	VCAPCD	N/A
N-031	*	POLYCYCLIC ORGANIC MATTER	EPA AP-42	N/A
N-031	*	ACETALDEHYDE	EPA AP-42	N/A
N-031	*	ACROLEIN	EPA AP-42	N/A
N-031	*	ARSENIC	VCAPCD	N/A
N-031	*	BENZENE	EPA AP-42	N/A
N-031	*	BUTADIENE (1, 3-)	EPA AP-42	N/A
N-031	*	CADMIUM	VCAPCD	N/A
N-031	*	CHLOROBENZENE	VCAPCD	N/A
N-031	*	ETHYL BENZENE	VCAPCD	N/A
N-031	*	FORMALDEHYDE	EPA AP-42	N/A
N-031	*	HEXANE	VCAPCD	N/A
N-031	*	HYDROCHLORIC ACID (HYDROGEN CHLORIDE)	VCAPCD	N/A
N-031	*	LEAD	VCAPCD	N/A
N-031	*	MANGANESE	VCAPCD	N/A
N-031	*	MERCURY (ELEMENTAL)	VCAPCD	N/A
N-031	*	NAPHTHALENE	EPA AP-42	N/A
N-031	*	NICKEL	VCAPCD	N/A
N-031	*	SELENIUM	VCAPCD	N/A
N-031	*	TOLUENE	EPA AP-42	N/A
N-031	*	XYLENE (MIXED ISOMERS)(XYLOL)	EPA AP-42	N/A

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South Carolina Department of Health and Environmental Control

Title V Permit Application
Facility Wide Information – Form E
Bureau of Air Quality

FACILITY WIDE RAW MATERIALS AND PRODUCTS				
1. Raw Materials	2. Quantity	3. Products (List Products in order of major to minor)	4. SIC/NAICS Code	5. Production Rate
DIESEL	7.31E+05 gal/year	ELECTRICITY		1100KW
		COMPRESSED AIR		5110 CFM

South Carolina Department of Health and Environmental Control

Title V Permit Application
Regulatory Information – Form I
Bureau of Air Quality

EMISSION LIMITS AND STANDARDS
(This section summarizes the emission unit emission limits and standards)

1. Emission Unit	2. Unit ID	3. Pollutant/Standard	4. Limit	5. Reference Method	6. Applicable Regulation (Regulation Citation/Condition)
MOBILE DIESEL EQUIPMENT POOL > 200 BHP	N-031	EMISSIONS FROM PROCESS INDUSTRIES - VISIBLE EMISSIONS (WHERE NOT SPECIFIED ELSEWHERE)	20% OPACITY	40 CFR 60, APPENDIX A, METHOD 009	SC 61-62.5, Std. 4, Sect. IX.B

COMPLIANCE AND PERMIT REQUIREMENTS
(This section summarizes the emission unit compliance requirements)

2. Unit ID	6. Applicable Regulation (Regulation Citation/Condition)	7. In Compliance (Y/N)	8. Compliance Statement	9. Compliance Date	10. First Submittal
N-031	SC 61-62.5, Std. 4, Sect. IX.B	Y		Apr-03	

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART I
(This section summarizes the monitoring and reporting requirements. Parts I, II, III, and IV must be completed for each emission unit).

2. Unit ID	11. Pollutant/Parameter	4. Limit	12. Required Monitoring	13. Monitoring Frequency	14. Reporting Frequency
N-031	FUEL OIL USAGE	7.31E+05 GAL / YR	FUEL CONSUMPTION	PER EACH REFUELING	SEMIANNUAL
N-031	VISIBLE INSPECTIONS (VI)	N/A	RECORDKEEPING	SEMIANNUAL	SEMIANNUAL

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART II
(This section summarizes the monitoring and reporting requirements)

2. Unit ID	3. or 11. Pollutant/Standard or Pollutant/Parameter	4. Limit	15. Recordkeeping Frequency	16. Averaging Time	17.Stack Test	
					Y/N	Frequency
N-031	FUEL OIL USAGE	7.31E+05 GAL / YR	PER EACH REFUELING	12-MONTH ROLLING SUM	N	N/A
N-031	VISIBLE INSPECTIONS (VI)	N/A	SEMIANNUAL	N/A	N	N/A

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART III
(This section summarizes the monitoring and reporting requirements not described in Parts I & II. Also summarizes applicable regulations that no Monitoring and Reporting is needed.)

2. Unit ID	11. Pollutant/Parameter	4. Limit	18. If no monitoring required, why?	19. List any monitoring requirements not listed above
N-031	FUEL OIL USAGE	7.31E+05 GAL / YR	MONITORING REQUIRED SEE PARTS I AND II	NONE

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MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART III
(This section summarizes the monitoring and reporting requirements not described in Parts I & II. Also summarizes applicable regulations that no Monitoring and Reporting is needed.)

2. Unit ID	11. Pollutant/Parameter	4. Limit	18. If no monitoring required, why?	19. List any monitoring requirements not listed above
N-031	VISIBLE INSPECTIONS (VI)	N/A	MONITORING REQUIRED SEE PARTS I AND II	NONE

MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART IV
(This section summarizes the monitoring and reporting requirements)

2. Unit ID	20. Description (include equip/process ID)	21. Potential Uncontrolled Emissions		22. Control Equip ID	23. Potential Controlled Emissions	24. Subject to CAM Rule (40 CFR 64)?			25. Reason Exempt?
		Pollutant	Tons/Year		Tons/Year	Yes*	No	Exempt	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	CARBON MONOXIDE	4.83E+01		4.83E+01		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	TOTAL PARTICULATE MATTER (PM)	1.58E+01		1.58E+01		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	PARTICULATE MATTER (10 MICRONS)	1.58E+01		1.58E+01		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	PARTICULATE MATTER (2.5 MICRONS)	1.58E+01		1.58E+01		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	NITROGEN DIOXIDE	2.24E+02		2.24E+02		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	SULFUR DIOXIDE	1.48E+01		1.48E+01		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	VOC (OZONE PRECURSORS)	1.83E+01		1.83E+01		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	CHROMIUM (+6)	3.66E-05		3.66E-05		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	CHROMIUM (TOTAL)	2.19E-04		2.19E-04		X	N	

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MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART IV
(This section summarizes the monitoring and reporting requirements)

2. Unit ID	20. Description (include equip/process ID)	21. Potential Uncontrolled Emissions		22. Control Equip ID	23. Potential Controlled Emissions	24. Subject to CAM Rule (40 CFR 64)?			25. Reason Exempt?
		Pollutant	Tons/Year		Tons/Year	Yes*	No	Exempt	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	POLYCYCLIC ORGANIC MATTER	8.55E-03		8.55E-03		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	ACETALDEHYDE	3.90E-02		3.90E-02		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	ACROLEIN	4.71E-03		4.71E-03		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	ARSENIC	5.85E-04		5.85E-04		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	BENZENE	4.75E-02		4.75E-02		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	BUTADIENE (1, 3-)	1.99E-03		1.99E-03		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	CADMIUM	5.48E-04		5.48E-04		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	CHLOROBENZENE	7.31E-05		7.31E-05		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	ETHYL BENZENE	3.98E-03		3.98E-03		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	FORMALDEHYDE	6.00E-02		6.00E-02		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	HEXANE	9.83E-03		9.83E-03		X	N	

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MONITORING/APPLICABLE REGULATION AND PERMIT/RULE REQUIREMENTS-PART IV
(This section summarizes the monitoring and reporting requirements)

2. Unit ID	20. Description (include equip/process ID)	21. Potential Uncontrolled Emissions		22. Control Equip ID	23. Potential Controlled Emissions	24. Subject to CAM Rule (40 CFR 64)?			25. Reason Exempt?
		Pollutant	Tons/Year		Tons/Year	Yes*	No	Exempt	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	HYDROCHLORIC ACID (HYDROGEN CHLORIDE)	6.81E-02		6.81E-02		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	LEAD	3.03E-03		3.03E-03		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	MANGANESE	1.13E-03		1.13E-03		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	MERCURY (ELEMENTAL)	7.31E-04		7.31E-04		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	NAPHTHALENE	4.32E-03		4.32E-03		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	NICKEL	1.43E-03		1.43E-03		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	SELENIUM	8.04E-04		8.04E-04		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	TOLUENE	2.08E-02		2.08E-02		X	N	
N-031	MOBILE DIESEL EQUIPMENT POOL > 200 BHP	XYLENE (MIXED ISOMERS)(XYLOL)	1.45E-02		1.45E-02		X	N	

NOTE* If yes, the applicant must submit additional information in the form of a CAM plan as required under 40 CFR 64

FACILITY-WIDE LIMITS FOR REGULATORY AVOIDANCE-PART V
(This section summarizes emission unit(s) covered under a limit to avoid an applicable regulation)

2. Unit ID (emission unit covered under the limit)	11. Pollutant/Parameter	4. Limit (Facility-Wide)	26. Parameter to Monitor	27. Applicable Regulation Avoidance

ADDITIONAL INFORMATION FOR MACT SOURCES-PART VI (This section allows for additional information or requirements for sources subject to a MACT Standard)			
2. Unit ID	28. New or Existing Equipment	29. Control Equip ID	30. List any unit/equipment which is specifically exempt from MACT standards and state why.

ADDITIONAL INFORMATION FOR MACT SOURCES-PART VII (This section allows for additional requirements for sources subject to a MACT Standard)	
2. Unit ID	31. List Other MACT Requirements: Operation examples, such as, maintenance and monitoring, operational/maintenance & malfunction (OM &M) plan, startup, shutdown, and malfunction (SSM) Plan, leak detection and repair (LDAR), wastewater unit requirements, etc.

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Emission Unit N-031, Mobile Diesel Equipment Pool Determination of Modeled Emission Rates December 2010 revision

Assumptions/Basis:

1. The equipment included in Unit N-031 consists of diesel engines less than or equal to 600hp. Therefore, Section 3.3 of AP-42 applies.
2. Per document number ETM-2010-00068, the SCDHEC modeling group agreed to utilize merged parameters for multiple stacks as outline in Section 2.2 of the SCDHEC Air Quality Modeling Guidelines. Table A contains the input for the 10 units that currently comprise N-031 and the calculated M for each of the 10 stacks.
3. Table B approximates the fuel consumption of a diesel generator based on its size and load. For determining maximum emissions 100% load is utilized. (http://www.dieselserviceandsupply.com/temp/Fuel_Consumption_Chart.pdf) The data in Table B for sizes 20kW to 600 kW were utilized to determine the formula for fuel usage (gal/hr) based on unit size and load.
   100% Load: Fuel Usage = 0.070162*(size in kw)+0.532989
   Attachment 1 shows the plot and data used.
4. The SO_X emission factor listed in AP-42 emission factors for small diesel engines (Table 3.3-1) does not include a factor for sulfur content of the fuel. It is conservatively assumed the SO_2 emission factor equals the SO_x emission factor provided by AP-42, Table 3.3-1.
5. The maximum acceptable sulfur content of diesel fuel received by SRS according to purchase specifications (WSRC-IM-95-58, Guide No. 15591-G, Savannah River Site Requirements for Diesel Fuel Quality) is 15 ppm sulfur (ultra low sulfur fuel). Ultra Low Sulfur diesel (ULSD) fuel has a BTU value of 139,000*Btu/gallon* (http://www.eia.doe.gov/cneaf/solar.renewables/page/trends/table1_h3.pdf, Attachment 2).
6. ULSD with a blend of 5% biodiesel (B5) has a BTU value of 139,200 Btu/gallon (http://www.burkeoil.com/pdf/patb51.pdf, Attachment 3).
7. The SRS currently utilizes only ULSD; however, ASTM standard D975-08 does allow a 5% biodiesel blend (B5). Based on the EPA's Draft Technical Report, "A Comprehensive Analysis of Biodiesel Impact on Exhaust Emissions," EPA420-P-02-001, (http://www.epa.gov/otaq/models/analysis/biodsl/p02001.pdf) it would be conservative to utilize the emission factors for fuel that don't contain biodiesel at a blend of 5%. It is assumed the slight increase in NOx emission would be negligible due to the use of the B5 blend. Refer to Attachment 4, figure ES-A from this referenced report. It is conservative to utilize the BTU/gal value for B5 blend compared to a ULSD. Note this is very conservative since the fuel is being used in equipment that is not capable of 100% efficiency in transferring fuel BTU content to mechanical energy.
8. An emission factor(s) could not be located for condensable particulate matter associated with small diesel engines. Therefore, no contribution from condensable particulate matter has been included in the emission factors for total PM, PM2.5 or PM10.

Emission Unit N-031, Mobile Diesel Equipment Pool Determination of Modeled Emission Rates December 2010 revision

9. Based on the note associated with Table 3.3-1 of AP42 stating, "All particulate is assumed to be ≤ 1 µm in size," the value listed in the table for PM-10 is conservatively applied to total PM and PM 2.5.
10. The units under N031 only utilize virgin fuel. Based on SCDHEC modeling guidance and document number ETM-2010-00068 it is only necessary to model the criteria pollutants and not the Standard 8 pollutants.
11. Emission Factors were available from AP-42 and the Ventura County Air Pollution Control District (VCAPCD). If a factor was listed in AP-42 and VCAPCD the factor from AP-42 factor was utilized.
12. Assumed that NO_x is NO_2.
13. The emission factor for VOC is conservatively reported as the total of the TOC emission factors listed in Table 3.3-1 of AP42.
14. AP-42 does not provide a factor for methane for small bore diesel engines. The large bore diesel engine section of AP-42 states that methane is 9% of the TOC while nonmethane (VOC) is 91% of TOC. Therefore, the following formula is utilized to determine the methane emission factor.

$$\text{methane} = 0.09 \times \text{TOC}$$

15. Table C contains the emission factors utilized in this calculation and their origin.
16. The fuel cap for N-031 is based on the previously permitted value of 731,110 gallons/yr.
17. Assume a maximum of 2 units from N031 will ever run simultaneously in D-area at any given time. 2/10 of the equivalent emission rate will be modeled at D-Area and 10/10 will be modeled at A-area.

Calculation:

Modeled Emission Rates:

The unit with the lowest M in Table A is equipment ID 76DN.

Calculation:
Hour limitation for a year:
Fuel Usage for all existing 10 units is 152.28gal/hr (Attachment 1)

Maximum modeled fuel rate that corresponds to the fuel cap of 731,110gal/yr for N031:
(max modeled value in gal/hr)/(7.31E05gal/yr) = (152.28 gal/hr)/(6.00E05 gal/yr)
maximum modeled gal/hr = 1.86E02 gal/hr

Example for NO2:
(4.41lbNO2/MMBtu)(139,200Btu/gal)(MMBtu/1,000,000Btu)(1.86E02gal/hr)= 1.14E+02lb/hr
Example for Lead:
(0.0083lb/kgal)(kgal/1000gal)(1.86E02gal/hr) = 1.54E-03lb/hr

Table D contains the lb per hour calculated emissions for N-031.

Emission Unit N-031, Mobile Diesel Equipment Pool Determination of Modeled Emission Rates December 2010 revision

Prepared By: Kim A. Wolfe

Signature and Date: 12/1/2010

Reviewed By: Greta Fanning

Signature and Date: Greta Fanning 12/2/2010

Emission Unit N-031, Mobile Diesel Equipment Pool Determination of Modeled Emission Rates December 2010 revision

REFERENCES

1 AP-42, Compilation of Air Pollutant Emission Factors, Volume I: *Stationary Point and Area Sources* U. S. Environmental Protection Agency, Research Triangle Park, N.C. Fifth Edition, January, 1995 (Sections 3.3 and 3.4)

2 Ventura County Air Pollution Control District (VCAPCD), Ventura County APCD AB2588 Combustion Emission Factors , technical memorandum, Ventura, California, 17 May, 2001.

3 EPA420-P-02-001, A Comprehensive Analysis of Biodiesel Impacts on Exhaust Emissions, Draft Technical Report, Issued by EPA, October 2002.

4 Manual WSRC-IM-95-58, Guide no 15591-G, Savannah River Site Requirements for Diesel Fuel Quality.

5 Approximate Fuel Consumption Chart, http://www.dieselserviceandsupply.com/temp/Fuel_Consumption_Chart.pdf.

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Table A

Stack Parameter and and M calculation for exiting 10 pieces of equipment currently contained in N031

Equp ID	AEI #	kW	bHp	Hs, stack ht (ft)	stack temp (F)	Ts, stack temp (R)	stack exit vel (ft/sec)	d, stack diam (ft)	stack emission area (sq. ft.)	Vfr, volumetric flow rate	Q, NO2 (lb/hr)	M (dimensionless)
76DN	NGE44		335	7.67	885	1345	215	0.417	0.136572	29.36	1.11E+01	2.73E+04
77DN	NGE45		335	7.67	885	1345	215	0.417	0.136572	29.36	1.11E+01	2.73E+04
78DN	NGE46		335	7.67	885	1345	215	0.417	0.136572	29.36	1.11E+01	2.73E+04
50DN	NGE32		315	8.08	820	1280	215	0.5	0.19635	42.22	1.04E+01	4.18E+04
411N	NGE20		215	8.1	890	1350	134	0.42	0.138544	18.56	7.23E+00	2.81E+04
51DN	NGE28	160	215	9.81	960	1420	215	0.38	0.113411	24.38	7.22E+00	4.70E+04
52DN	NGE29	160	215	9.81	960	1420	215	0.38	0.113411	24.38	7.22E+00	4.70E+04
54DN	NGE31	160	215	9.81	960	1420	215	0.38	0.113411	24.38	7.22E+00	4.70E+04
61DN	NGE39		315	8.125	875	1335	206	0.417	0.136572	28.13	1.04E+01	2.92E+04
62DN	NGE40		315	8.125	875	1335	206	0.417	0.136572	28.13	1.04E+01	2.92E+04

Notes:

1. Each of the above equipment IDs have a hinged flapper cap that lifts when the unit is in operation, therefore there is no need to correct the exit velocity
2. Q is determined by the following: Q=(emission factor from AP42)*(BTU value of fuel in BTU/gal)(1MMBtu/1,000,000Btu)(fuel usage rate in gal/hr)
3. AP42 emission factor for NO2 is 4.41lb/MMBTU
4. BTU value for fuel is 139,200BTU/gal (refer to Attachment 3)
5. Fuel usage is dependent on size of unit and load. It is conservatively assumed a 100% load.
   Based on Table B data and Attachment 1, fuel usage = 0.070162*(size in kw)+0.532989

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Table B
Diesel kW/BHp to Gallons per Hour Consumption Rate

Diesel
SERVICE & SUPPLY INC
755 N 9th Ave. Brighton, Colorado 80603
Sales@DieselServiceandSupply.com
800-653-2073 | 303-659-2073 | 303-659-7923 fax
www.dieselserviceandsupply.com

Approximate Fuel Consumption Chart

This chart approximates the fuel consumption of a diesel generator based on the size of the generator and the load at which the generator is operating at. Please note that this table is intended to be used as an estimate of how much fuel a generator uses during operation and is not an exact representation due to various factors that can increase or decrease the amount of fuel consumed.

Generator Size (kW)	1/4 Load (gal/hr)	1/2 Load (gal/hr)	3/4 Load (gal/hr)	Full Load (gal/hr)
20	0.6	0.9	1.3	1.6
30	1.3	1.8	2.4	2.9
40	1.6	2.3	3.2	4.0
60	1.8	2.9	3.6	4.8
75	2.4	3.4	4.6	6.1
100	2.6	4.1	5.6	7.4
125	3.1	5.0	7.1	9.1
135	3.3	5.4	7.6	9.8
150	3.6	5.9	8.4	10.9
175	4.1	6.8	9.7	12.7
200	4.7	7.7	11.0	14.4
230	5.3	8.8	12.5	16.6
250	5.7	9.5	13.6	18.0
300	6.8	11.3	16.1	21.5
350	7.9	13.1	18.7	25.1
400	8.9	14.9	21.3	28.6
500	11.0	18.5	26.4	35.7
600	13.2	22.0	31.5	42.8
750	16.3	27.4	39.3	53.4
1000	21.6	36.4	52.1	71.1
1250	26.9	45.3	65.0	88.8
1500	32.2	54.3	77.8	106.5
1750	37.5	63.2	90.7	124.2
2000	42.8	72.2	103.5	141.9
2250	48.1	81.1	116.4	159.6

www.dieselserviceandsupply.com

1) Fuel usage and kW obtained from manufacturer
2) Break Horse Power (BHp) from Standard Conversion Chart
where: BHp = (kW)(1.34102)

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Table C
Emission Factors For Diesel Engines with
Break Horsepower Ratings Less than or equal to 600 Bhp

Pollutant	CAS Number	Emission Factor lb./MMBtu	Emission Factor lb./Kgal[4]	Reference
NO_2	10102-44-0	4.41E+00 [2]		AP-42 Table 3.3-1
SO_2	7446-9-5	2.90E-01 [2]		AP-42 Table 3.4-1
CO	630-08-0	9.50E-01		AP-42 Table 3.3-1
Carbon dioxide	124-38-9	1.64E+02		AP-42 Table 3.3-1
Total Particulate Matter	[1]	3.10E-01		AP-42 Table 3.3-1
$PM_{2.5}$	[1]	3.10E-01		AP-42 Table 3.3-1[5]
PM_{10}	[1]	3.10E-01		AP-42 Table 3.3-1[5]
Aldehydes	[1]	7.00E-02		AP-42 Table 3.3-1
Arsenic	7440-38-2		1.60E-03	VCAPCD
Beryllium	7440-41-7		ND [3]	VCAPCD
Cadmium	7440-43-9		1.50E-03	VCAPCD
Chromium (hexavalent)	7440-47-3		1.00E-04	VCAPCD
Chromium (total)	[1]		6.00E-04	VCAPCD
Copper	7440-50-8		4.10E-03	VCAPCD
Lead	7439-92-1		8.30E-03	VCAPCD
Manganese	7439-96-5		3.10E-03	VCAPCD
Mercury	7439-97-6		2.00E-03	VCAPCD
Nickel	7440-02-0		3.90E-03	VCAPCD
Selenium	7782-49-2		2.20E-03	VCAPCD
Zinc	7440-66-6		2.24E-02	VCAPCD
Methane	74-82-8	3.24E-02		AP-42 Table 3.3-1 [8]
VOC (non-methane)	[1]	3.60E-01		AP-42 Table 3.3-1 [7]
1,3-butadiene	106-99-0	3.91E-05		AP-42 Table 3.3-2
Acetaldehyde	75-07-0	7.67E-04		AP-42 Table 3.3-2
Acrolein	107-02-8	9.25E-05		AP-42 Table 3.3-2
Benzene	71-43-2	9.33E-04		AP-42 Table 3.3-2
Chlorobenzene	108-90-7		2.00E-04	VCAPCD
Formaldehyde	50-00-0	1.18E-03		AP-42 Table 3.3-2
Propylene	115-07-1	2.58E-03		AP-42 Table 3.3-2
Toluene	108-88-3	4.09E-04		AP-42 Table 3.3-2
Xylenes	1330-20-7	2.85E-04		AP-42 Table 3.3-2
Polycyclic Organic Matter (POM) [6]	[1]	1.68E-04		AP-42 Table 3.3-2
Naphthalene	91-20-3	8.48E-05		AP-42 Table 3.3-2
Acenaphthylene	208-96-8	5.06E-06		AP-42 Table 3.3-2
Acenaphthene	83-32-9	1.42E-06		AP-42 Table 3.3-2
Fluorene	7782-41-4	2.92E-05		AP-42 Table 3.3-2
Phenanthrene	85-01-8	2.94E-05		AP-42 Table 3.3-2
Anthracene	120-12-7	1.87E-06		AP-42 Table 3.3-2
Fluoranthene	206-44-0	7.61E-06		AP-42 Table 3.3-2

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Pollutant	CAS Number	Emission Factor lb./MMBtu	Emission Factor lb./Kgal[4]	Reference
Pyrene	129-00-0	4.78E-06		AP-42 Table 3.3-2
Benz(a)anthracene	56-55-3	1.68E-06		AP-42 Table 3.3-2
Chrysene	218-01-9	3.53E-07		AP-42 Table 3.3-2
Benzo(b)fluoranthene	205-99-2	9.91E-08		AP-42 Table 3.3-2
Benzo(k)fluoranthene	207-08-9	1.55E-07		AP-42 Table 3.3-2
Benzo(a)pyrene	50-32-8	1.88E-07		AP-42 Table 3.3-2
Indeno(1,2,3-cd)pyrene	193-39-5	3.75E-07		AP-42 Table 3.3-2
Dibenz(a,h)nathracene	53-70-3	5.83E-07		AP-42 Table 3.3-2
Benzo(g,h,l)perylene	191-24-2	4.89E-07		AP-42 Table 3.3-2
PAH		1.68E-04		AP-42 Table 3.3-2
Dioxins	(1)		ND (3)	VCAPCD
Furans	(1)		ND (3)	VCAPCD
Hydrogen Chloride	7647-01-0		0.1863	VCAPCD
Hexane	110-54-3		0.0269	VCAPCD
Ethyl Benzene	100-41-4		0.0109	VCAPCD

(1) Multiple CAS Numbers Apply.

(2) NO_2 emission factor = NO_x emission factor and SO_2 emission factor = SO_x emission factor

(3) These compounds are present in traced quantities, below detection limits of analytical equipment used to test for these compounds. For emissions inventory reporting purposes, SRS will report these compounds as being present at trace levels.

(4) Emission factors are converted from "lb./MMBtu" to "lb./Mgal" by multiplying the "lb./MMBtu" by the heat content of the fuel and dividing by 1,000 gal/Mgal.

(5) All particulate matter is assumed by AP-42 to be less than or equal to 0.1 μm.

(6) Total PAH in AP-42

(7) Sum of the TOC emission factors for compounds in Table 3.3-1 of AP-42. Assumed TOC emission factor = VOC emission factor.

(8) AP-42 does not specifically list methane emissions for small bore engines. The large bore engines in Table 3.4-1 states that methane is 9% of the TOC.

Emission Unit N-031, Mobile Diesel Equipment Pool Determination of Modeled Emission Rates December 2010 revision

Table D – Calculated Maximum lb/hr emissions from N-031

				10/10 modeled in A-Area		2/10 modeled in D-area	
Pollutant	CAS number	EF (lb/MMBtu)	EF (lb/Kgal)	Emission Rate (lb/hr)	Emission Rate (gram/sec)	Emission Rate (lb/hr)	Emission Rate (gram/sec)
NO_2	10102-44-0	4.41E+00		1.14E+02	1.44E+01	2.28E+01	2.87E+00
SO_2	7446-9-5	2.90E-01		7.50E+00	9.45E-01	1.50E+00	1.89E-01
CO	630-08-0	9.50E-01		2.46E+01	3.09E+00	4.91E+00	6.19E-01
Total Particulate Matter		3.10E-01		8.01E+00	1.01E+00	1.60E+00	2.02E-01
$PM_{2.5}$		3.10E-01		8.01E+00	1.01E+00	1.60E+00	2.02E-01
PM_{10}		3.10E-01		8.01E+00	1.01E+00	1.60E+00	2.02E-01
Lead	7439-92-1		0.0083	1.54E-03	1.94E-04	3.08E-04	3.88E-05
VOC (non-methane)		3.60E-01		9.31E+00	1.17E+00	1.86E+00	2.34E-01

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Table E – Calculated maximum emission rates for equipment IDs #76DN, 77DN, and 78DN

Pollutant	CAS number	EF (lb/MMBtu)	EF (lb/Kgal)	Emission Rate (lb/hr)	Emission Rate (TPY)
NO_2	10102-44-0	4.41E+00		1.11E+01	1.33E+01
SO_2	7446-9-5	2.90E-01		7.29E-01	8.74E-01
CO	630-08-0	9.50E-01		2.39E+00	2.86E+00
Carbon dioxide	124-38-9	1.64E+02		4.12E+02	4.94E+02
Total Particulate Matter		3.10E-01		7.79E-01	9.34E-01
$PM_{2.5}$		3.10E-01		7.79E-01	9.34E-01
PM_{10}		3.10E-01		7.79E-01	9.34E-01
Aldehydes		7.00E-02		1.76E-01	2.11E-01
Arsenic	7440-38-2		0.0016	2.89E-05	3.46E-05
Beryllium	7440-41-7		ND	ND	ND
Cadmium	7440-43-9		0.0015	2.71E-05	3.25E-05
Chromium (hexavalent)	7440-47-3		0.0001	1.81E-06	2.16E-06
Chromium (total)			0.0006	1.08E-05	1.30E-05
Copper	7440-50-8		0.0041	7.40E-05	8.87E-05
Lead	7439-92-1		0.0083	1.50E-04	1.80E-04
Manganese	7439-96-5		0.0031	5.60E-05	6.71E-05
Mercury	7439-97-6		0.0020	3.61E-05	4.33E-05
Nickel	7440-02-0		0.0039	7.04E-05	8.44E-05
Selenium	7782-49-2		0.0022	3.97E-05	4.76E-05
Zinc	7440-66-6		0.0224	4.05E-04	4.85E-04
Methane	74-82-8	3.24E-02		8.15E-02	9.76E-02
VOC (non-methane)		3.60E-01		9.05E-01	1.08E+00
1,3-butadiene	106-99-0	3.91E-05		9.83E-05	1.18E-04
Acetaldehyde	75-07-0	7.67E-04		1.93E-03	2.31E-03
Acrolein	107-02-8	9.25E-05		2.33E-04	2.79E-04
Benzene	71-43-2	9.33E-04		2.35E-03	2.81E-03
Chlorobenzene	108-90-7		0.0002	3.61E-06	4.33E-06
Formaldehyde	50-00-0	1.18E-03		2.97E-03	3.56E-03
Propylene	115-07-1	2.58E-03		6.49E-03	7.77E-03
Toluene	108-88-3	4.09E-04		1.03E-03	1.23E-03
Xylenes	1330-20-7	2.85E-04		7.16E-04	8.59E-04
Polycyclic Organic Matter (POM) [(6)]		1.68E-04		4.22E-04	5.06E-04
Naphthalene	91-20-3	8.48E-05		2.13E-04	2.56E-04
Acenaphthylene	208-96-8	5.06E-06		1.27E-05	1.52E-05
Acenaphthene	83-32-9	1.42E-06		3.57E-06	4.28E-06
Fluorene	7782-41-4	2.92E-05		7.34E-05	8.80E-05
Phenanthrene	85-01-8	2.94E-05		7.39E-05	8.86E-05
Anthracene	120-12-7	1.87E-06		4.70E-06	5.63E-06
Fluoranthene	206-44-0	7.61E-06		1.91E-05	2.29E-05
Pyrene	129-00-0	4.78E-06		1.20E-05	1.44E-05
Benz(a)anthracene	56-55-3	1.68E-06		4.22E-06	5.06E-06
Chrysene	218-01-9	3.53E-07		8.87E-07	1.06E-06
Benzo(b)fluoranthene	205-99-2	9.91E-08		2.49E-07	2.99E-07
Benzo(k)fluoranthene	207-08-9	1.55E-07		3.90E-07	4.67E-07
Benzo(a)pyrene	50-32-8	1.88E-07		4.73E-07	5.66E-07
Indeno(1,2,3-cd)pyrene	193-39-5	3.75E-07		9.43E-07	1.13E-06
Dibenz(a,b)nathracene	53-70-3	5.83E-07		1.47E-06	1.76E-06
Benzo(g,h,I)perylene	191-24-2	4.89E-07		1.23E-06	1.47E-06
PAH		1.68E-04		4.22E-04	5.06E-04
Dioxins		ND		ND	ND
Furans		ND		ND	ND
Hydrogen Chloride	7647-01-0		0.1863	3.36E-03	4.03E-03
Hexane	110-54-3		0.0269	4.86E-04	5.82E-04
Ethyl Benzene	100-41-4		0.0109	1.97E-04	2.36E-04

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Table E – Calculated maximum emission rates for equipment ID #50DN

Pollutant	CAS number	EF (lb/MMBtu)	EF (lb/Kgal)	Emission Rate (lb/hr)	Emission Rate (TPY)
NO_2	10102-44-0	4.41E+00		1.04E+01	2.09E+01
SO_2	7446-9-5	2.90E-01		6.87E-01	1.37E+00
CO	630-08-0	9.50E-01		2.25E+00	4.50E+00
Carbon dioxide	124-38-9	1.64E+02		3.88E+02	7.77E+02
Total Particulate Matter		3.10E-01		7.34E-01	1.47E+00
$PM_{2.5}$		3.10E-01		7.34E-01	1.47E+00
PM_{10}		3.10E-01		7.34E-01	1.47E+00
Aldehydes		7.00E-02		1.66E-01	3.31E-01
Arsenic	7440-38-2		0.0016	2.72E-05	5.44E-05
Beryllium	7440-41-7		ND	ND	ND
Cadmium	7440-43-9		0.0015	2.55E-05	5.10E-05
Chromium (hexavalent)	7440-47-3		0.0001	1.70E-06	3.40E-06
Chromium (total)			0.0006	1.02E-05	2.04E-05
Copper	7440-50-8		0.0041	6.97E-05	1.39E-04
Lead	7439-92-1		0.0083	1.41E-04	2.82E-04
Manganese	7439-96-5		0.0031	5.27E-05	1.05E-04
Mercury	7439-97-6		0.0020	3.40E-05	6.80E-05
Nickel	7440-02-0		0.0039	6.63E-05	1.33E-04
Selenium	7782-49-2		0.0022	3.74E-05	7.48E-05
Zinc	7440-66-6		0.0224	3.81E-04	7.62E-04
Methane	74-82-8	3.24E-02		7.67E-02	1.53E-01
VOC (non-methane)		3.60E-01		8.52E-01	1.70E+00
1,3-butadiene	106-99-0	3.91E-05		9.26E-05	1.85E-04
Acetaldehyde	75-07-0	7.67E-04		1.82E-03	3.63E-03
Acrolein	107-02-8	9.25E-05		2.19E-04	4.38E-04
Benzene	71-43-2	9.33E-04		2.21E-03	4.42E-03
Chlorobenzene	108-90-7		0.0002	3.40E-06	6.80E-06
Formaldehyde	50-00-0	1.18E-03		2.79E-03	5.59E-03
Propylene	115-07-1	2.58E-03		6.11E-03	1.22E-02
Toluene	108-88-3	4.09E-04		9.68E-04	1.94E-03
Xylenes	1330-20-7	2.85E-04		6.75E-04	1.35E-03
Polycyclic Organic Matter (POM) [a]		1.68E-04		3.98E-04	7.96E-04
Naphthalene	91-20-3	8.48E-05		2.01E-04	4.02E-04
Acenaphthylene	208-96-8	5.06E-06		1.20E-05	2.40E-05
Acenaphthene	83-32-9	1.42E-06		3.36E-06	6.72E-06
Fluorene	7782-41-4	2.92E-05		6.91E-05	1.38E-04
Phenanthrene	85-01-8	2.94E-05		6.96E-05	1.39E-04
Anthracene	120-12-7	1.87E-06		4.43E-06	8.86E-06
Fluoranthene	206-44-0	7.61E-06		1.80E-05	3.60E-05
Pyrene	129-00-0	4.78E-06		1.13E-05	2.26E-05
Benz(a)anthracene	56-55-3	1.68E-06		3.98E-06	7.96E-06
Chrysene	218-01-9	3.53E-07		8.36E-07	1.67E-06
Benzo(b)fluoranthene	205-99-2	9.91E-08		2.35E-07	4.69E-07
Benzo(k)fluoranthene	207-08-9	1.55E-07		3.67E-07	7.34E-07
Benzo(a)pyrene	50-32-8	1.88E-07		4.45E-07	8.90E-07
Indeno(1,2,3-cd)pyrene	193-39-5	3.75E-07		8.88E-07	1.78E-06
Dibenz(a,h)nathracene	53-70-3	5.83E-07		1.38E-06	2.76E-06
Benzo(g,h,I)perylene	191-24-2	4.89E-07		1.16E-06	2.32E-06
PAH		1.68E-04		3.98E-04	7.96E-04
Dioxins		ND		ND	ND
Furans		ND		ND	ND
Hydrogen Chloride	7647-01-0		0.1863	3.17E-03	6.34E-03
Hexane	110-54-3		0.0269	4.58E-04	9.15E-04
Ethyl Benzene	100-41-4		0.0109	1.85E-04	3.71E-04

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Table E – Calculated maximum emission rates for equipment ID #411N

Pollutant	CAS number	EF (lb/MMBtu)	EF (lb/Kgal)	Emission Rate (lb/hr)	Emission Rate (TPY)
NO_2	10102-44-0	4.41E+00		7.23E+00	2.11E+01
SO_2	7446-9-5	2.90E-01		4.76E-01	1.39E+00
CO	630-08-0	9.50E-01		1.56E+00	4.55E+00
Carbon dioxide	124-38-9	1.64E+02		2.69E+02	7.85E+02
Total Particulate Matter		3.10E-01		5.08E-01	1.48E+00
$PM_{2.5}$		3.10E-01		5.08E-01	1.48E+00
PM_{10}		3.10E-01		5.08E-01	1.48E+00
Aldehydes		7.00E-02		1.15E-01	3.35E-01
Arsenic	7440-38-2		0.0016	1.88E-05	5.50E-05
Beryllium	7440-41-7		ND	ND	ND
Cadmium	7440-43-9		0.0015	1.77E-05	5.16E-05
Chromium (hexavalent)	7440-47-3		0.0001	1.18E-06	3.44E-06
Chromium (total)			0.0006	7.07E-06	2.06E-05
Copper	7440-50-8		0.0041	4.83E-05	1.41E-04
Lead	7439-92-1		0.0083	9.78E-05	2.86E-04
Manganese	7439-96-5		0.0031	3.65E-05	1.07E-04
Mercury	7439-97-6		0.0020	2.36E-05	6.88E-05
Nickel	7440-02-0		0.0039	4.59E-05	1.34E-04
Selenium	7782-49-2		0.0022	2.59E-05	7.57E-05
Zinc	7440-66-6		0.0224	2.64E-04	7.71E-04
Methane	74-82-8	3.24E-02		5.31E-02	1.55E-01
VOC (non-methane)		3.60E-01		5.90E-01	1.72E+00
1,3-butadiene	106-99-0	3.91E-05		6.41E-05	1.87E-04
Acetaldehyde	75-07-0	7.67E-04		1.26E-03	3.67E-03
Acrolein	107-02-8	9.25E-05		1.52E-04	4.43E-04
Benzene	71-43-2	9.33E-04		1.53E-03	4.47E-03
Chlorobenzene	108-90-7		0.0002	2.36E-06	6.88E-06
Formaldehyde	50-00-0	1.18E-03		1.93E-03	5.65E-03
Propylene	115-07-1	2.58E-03		4.23E-03	1.24E-02
Toluene	108-88-3	4.09E-04		6.71E-04	1.96E-03
Xylenes	1330-20-7	2.85E-04		4.67E-04	1.36E-03
Polycyclic Organic Matter (POM) [a]		1.68E-04		2.75E-04	8.04E-04
Naphthalene	91-20-3	8.48E-05		1.39E-04	4.06E-04
Acenaphthylene	208-96-8	5.06E-06		8.30E-06	2.42E-05
Acenaphthene	83-32-9	1.42E-06		2.33E-06	6.80E-06
Fluorene	7782-41-4	2.92E-05		4.79E-05	1.40E-04
Phenanthrene	85-01-8	2.94E-05		4.82E-05	1.41E-04
Anthracene	120-12-7	1.87E-06		3.07E-06	8.95E-06
Fluoranthene	206-44-0	7.61E-06		1.25E-05	3.64E-05
Pyrene	129-00-0	4.78E-06		7.84E-06	2.29E-05
Benz(a)anthracene	56-55-3	1.68E-06		2.75E-06	8.04E-06
Chrysene	218-01-9	3.53E-07		5.79E-07	1.69E-06
Benzo(b)fluoranthene	205-99-2	9.91E-08		1.63E-07	4.75E-07
Benzo(k)fluoranthene	207-08-9	1.55E-07		2.54E-07	7.42E-07
Benzo(a)pyrene	50-32-8	1.88E-07		3.08E-07	9.00E-07
Indeno(1,2,3-cd)pyrene	193-39-5	3.75E-07		6.15E-07	1.80E-06
Dibenz(a,h)nathracene	53-70-3	5.83E-07		9.56E-07	2.79E-06
Benzo(g,h,i)perylene	191-24-2	4.89E-07		8.02E-07	2.34E-06
PAH		1.68E-04		2.75E-04	8.04E-04
Dioxins		ND		ND	ND
Furans		ND		ND	ND
Hydrogen Chloride	7647-01-0		0.1863	2.19E-03	6.41E-03
Hexane	110-54-3		0.0269	3.17E-04	9.25E-04
Ethyl Benzene	100-41-4		0.0109	1.28E-04	3.75E-04

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Table E – Calculated maximum emission rates for equipment IDs #51DN, 52DN, and 54DN

Pollutant	CAS number	EF (lb/MMBtu)	EF (lb/Kgal)	Emission Rate (lb/hr)	Emission Rate (TPY)
NO_2	10102-44-0	4.41E+00		7.22E+00	7.94E+00
SO_2	7446-9-5	2.90E-01		4.75E-01	5.22E-01
CO	630-08-0	9.50E-01		1.56E+00	1.71E+00
Carbon dioxide	124-38-9	1.64E+02		2.68E+02	2.95E+02
Total Particulate Matter		3.10E-01		5.07E-01	5.58E-01
$PM_{2.5}$		3.10E-01		5.07E-01	5.58E-01
PM_{10}		3.10E-01		5.07E-01	5.58E-01
Aldehydes		7.00E-02		1.15E-01	1.26E-01
Arsenic	7440-38-2		0.0016	1.88E-05	2.07E-05
Beryllium	7440-41-7		ND	ND	ND
Cadmium	7440-43-9		0.0015	1.76E-05	1.94E-05
Chromium (hexavalent)	7440-47-3		0.0001	1.18E-06	1.29E-06
Chromium (total)			0.0006	7.06E-06	7.76E-06
Copper	7440-50-8		0.0041	4.82E-05	5.30E-05
Lead	7439-92-1		0.0083	9.76E-05	1.07E-04
Manganese	7439-96-5		0.0031	3.65E-05	4.01E-05
Mercury	7439-97-6		0.0020	2.35E-05	2.59E-05
Nickel	7440-02-0		0.0039	4.59E-05	5.05E-05
Selenium	7782-49-2		0.0022	2.59E-05	2.85E-05
Zinc	7440-66-6		0.0224	2.63E-04	2.90E-04
Methane	74-82-8	3.24E-02		5.30E-02	5.83E-02
VOC (non-methane)		3.60E-01		5.89E-01	6.48E-01
1,3-butadiene	106-99-0	3.91E-05		6.40E-05	7.04E-05
Acetaldehyde	75-07-0	7.67E-04		1.26E-03	1.38E-03
Acrolein	107-02-8	9.25E-05		1.51E-04	1.67E-04
Benzene	71-43-2	9.33E-04		1.53E-03	1.68E-03
Chlorobenzene	108-90-7		0.0002	2.35E-06	2.59E-06
Formaldehyde	50-00-0	1.18E-03		1.93E-03	2.12E-03
Propylene	115-07-1	2.58E-03		4.22E-03	4.65E-03
Toluene	108-88-3	4.09E-04		6.70E-04	7.36E-04
Xylenes	1330-20-7	2.85E-04		4.67E-04	5.13E-04
Polycyclic Organic Matter (POM) [6]		1.68E-04		2.75E-04	3.03E-04
Naphthalene	91-20-3	8.48E-05		1.39E-04	1.53E-04
Acenaphthylene	208-96-8	5.06E-06		8.28E-06	9.11E-06
Acenaphthene	83-32-9	1.42E-06		2.32E-06	2.56E-06
Fluorene	7782-41-4	2.92E-05		4.78E-05	5.26E-05
Phenanthrene	85-01-8	2.94E-05		4.81E-05	5.29E-05
Anthracene	120-12-7	1.87E-06		3.06E-06	3.37E-06
Fluoranthene	206-44-0	7.61E-06		1.25E-05	1.37E-05
Pyrene	129-00-0	4.78E-06		7.82E-06	8.61E-06
Benz(a)anthracene	56-55-3	1.68E-06		2.75E-06	3.03E-06
Chrysene	218-01-9	3.53E-07		5.78E-07	6.36E-07
Benzo(b)fluoranthene	205-99-2	9.91E-08		1.62E-07	1.78E-07
Benzo(k)fluoranthene	207-08-9	1.55E-07		2.54E-07	2.79E-07
Benzo(a)pyrene	50-32-8	1.88E-07		3.08E-07	3.39E-07
Indeno(1,2,3-cd)pyrene	193-39-5	3.75E-07		6.14E-07	6.75E-07
Dibenz(a,h)nathracene	53-70-3	5.83E-07		9.54E-07	1.05E-06
Benzo(g,h,i)perylene	191-24-2	4.89E-07		8.00E-07	8.81E-07
PAH		1.68E-04		2.75E-04	3.03E-04
Dioxins		ND		ND	ND
Furans		ND		ND	ND
Hydrogen Chloride	7647-01-0		0.1863	2.19E-03	2.41E-03
Hexane	110-54-3		0.0269	3.16E-04	3.48E-04
Ethyl Benzene	100-41-4		0.0109	1.28E-04	1.41E-04

Emission Unit N-031, Mobile Diesel Equipment Pool Determination of Modeled Emission Rates December 2010 revision

Table E – Calculated maximum emission rates for equipment IDs #61DN and 62DN

Pollutant	CAS number	EF (lb/MMBtu)	EF (lb/Kgal)	Emission Rate (lb/hr)	Emission Rate (TPY)
NO_2	10102-44-0	4.41E+00		1.04E+01	3.92E+01
SO_2	7446-9-5	2.90E-01		6.87E-01	2.57E+00
CO	630-08-0	9.50E-01		2.25E+00	8.44E+00
Carbon dioxide	124-38-9	1.64E+02		3.88E+02	1.46E+03
Total Particulate Matter		3.10E-01		7.34E-01	2.75E+00
$PM_{2.5}$		3.10E-01		7.34E-01	2.75E+00
PM_{10}		3.10E-01		7.34E-01	2.75E+00
Aldehydes		7.00E-02		1.66E-01	6.22E-01
Arsenic	7440-38-2		0.0016	2.72E-05	1.02E-04
Beryllium	7440-41-7		ND	ND	ND
Cadmium	7440-43-9		0.0015	2.55E-05	9.57E-05
Chromium (hexavalent)	7440-47-3		0.0001	1.70E-06	6.38E-06
Chromium (total)			0.0006	1.02E-05	3.83E-05
Copper	7440-50-8		0.0041	6.97E-05	2.62E-04
Lead	7439-92-1		0.0083	1.41E-04	5.29E-04
Manganese	7439-96-5		0.0031	5.27E-05	1.98E-04
Mercury	7439-97-6		0.0020	3.40E-05	1.28E-04
Nickel	7440-02-0		0.0039	6.63E-05	2.49E-04
Selenium	7782-49-2		0.0022	3.74E-05	1.40E-04
Zinc	7440-66-6		0.0224	3.81E-04	1.43E-03
Methane	74-82-8	3.24E-02		7.67E-02	2.88E-01
VOC (non-methane)		3.60E-01		8.52E-01	3.20E+00
1,3-butadiene	106-99-0	3.91E-05		9.26E-05	3.47E-04
Acetaldehyde	75-07-0	7.67E-04		1.82E-03	6.81E-03
Acrolein	107-02-8	9.25E-05		2.19E-04	8.21E-04
Benzene	71-43-2	9.33E-04		2.21E-03	8.28E-03
Chlorobenzene	108-90-7		0.0002	3.40E-06	1.28E-05
Formaldehyde	50-00-0	1.18E-03		2.79E-03	1.05E-02
Propylene	115-07-1	2.58E-03		6.11E-03	2.29E-02
Toluene	108-88-3	4.09E-04		9.68E-04	3.63E-03
Xylenes	1330-20-7	2.85E-04		6.75E-04	2.53E-03
Polycyclic Organic Matter (POM) [4]		1.68E-04		3.98E-04	1.49E-03
Naphthalene	91-20-3	8.48E-05		2.01E-04	7.53E-04
Acenaphthylene	208-96-8	5.06E-06		1.20E-05	4.49E-05
Acenaphthene	83-32-9	1.42E-06		3.36E-06	1.26E-05
Fluorene	7782-41-4	2.92E-05		6.91E-05	2.59E-04
Phenanthrene	85-01-8	2.94E-05		6.96E-05	2.61E-04
Anthracene	120-12-7	1.87E-06		4.43E-06	1.66E-05
Fluoranthene	206-44-0	7.61E-06		1.80E-05	6.76E-05
Pyrene	129-00-0	4.78E-06		1.13E-05	4.24E-05
Benz(a)anthracene	56-55-3	1.68E-06		3.98E-06	1.49E-05
Chrysene	218-01-9	3.53E-07		8.36E-07	3.13E-06
Benzo(b)fluoranthene	205-99-2	9.91E-08		2.35E-07	8.80E-07
Benzo(k)fluoranthene	207-08-9	1.55E-07		3.67E-07	1.38E-06
Benzo(a)pyrene	50-32-8	1.88E-07		4.45E-07	1.67E-06
Indeno(1,2,3-cd)pyrene	193-39-5	3.75E-07		8.88E-07	3.33E-06
Dibenz(a,h)nathracene	53-70-3	5.83E-07		1.38E-06	5.18E-06
Benzo(g,h,i)perylene	191-24-2	4.89E-07		1.16E-06	4.34E-06
PAH		1.68E-04		3.98E-04	1.49E-03
Dioxins		ND		ND	ND
Furans		ND		ND	ND
Hydrogen Chloride	7647-01-0		0.1863	3.17E-03	1.19E-02
Hexane	110-54-3		0.0269	4.58E-04	1.72E-03
Ethyl Benzene	100-41-4		0.0109	1.85E-04	6.95E-04

Emission Unit N-031, Mobile Diesel Equipment Pool Determination of Modeled Emission Rates December 2010 revision

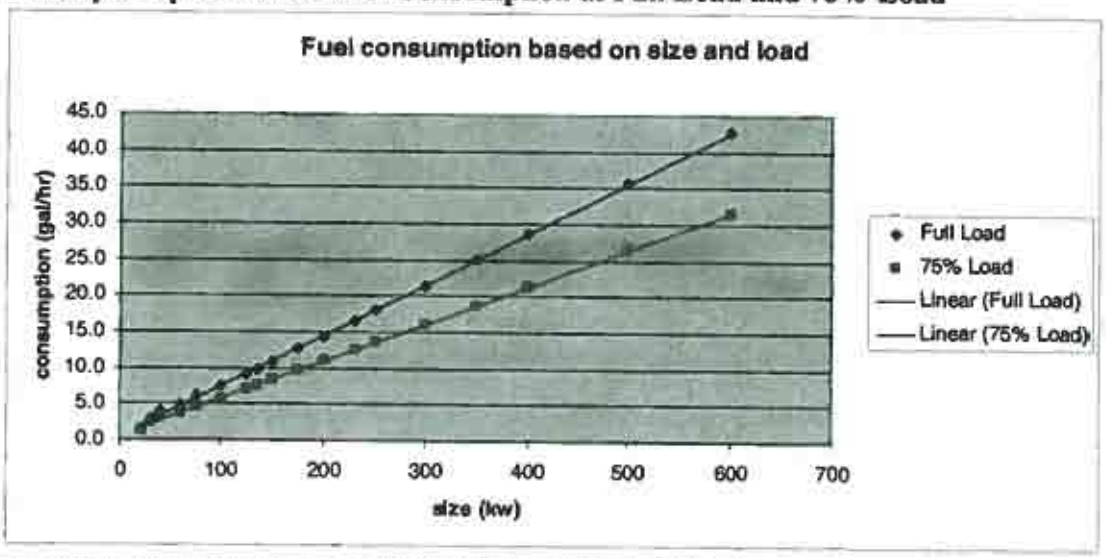
Table E - N-031 based on 731,110 gal/yr fuel cap and 1.86E02 gal/hr based on annual fuel cap

Pollutant	CAS number	EF (lb/MMBtu)	EF (lb/Kgal)	Emission Rate (lb/hr)	Emission Rate (TPY)
CO	630-08-0	9.50E-01		2.45E+01	4.83E+01
Total Particulate Matter		3.10E-01		8.01E+00	1.58E+01
PM_{10}		3.10E-01		8.01E+00	1.58E+01
$PM_{2.5}$		3.10E-01		8.01E+00	1.58E+01
NO_2	10102-44-0	4.41E+00		1.14E+02	2.24E+02
SO_2	7446-9-5	2.90E-01		7.49E+00	1.48E+01
VOC (non-methane)		3.60E-01		9.30E+00	1.83E+01
Chromium (hexavalent)	7440-47-3		0.0001	1.86E-05	3.66E-05
Chromium (total)			0.0006	1.11E-04	2.19E-04
Polycyclic Organic Matter (POM) [8]		1.68E-04		4.34E-03	8.55E-03
Acetaldehyde	75-07-0	7.67E-04		1.98E-02	3.90E-02
Acrolein	107-02-8	9.25E-05		2.39E-03	4.71E-03
Arsenic	7440-38-2		0.0016	2.97E-04	5.85E-04
Benzene	71-43-2	9.33E-04		2.41E-02	4.75E-02
1,3-butadiene	106-99-0	3.91E-05		1.01E-03	1.99E-03
Cadmium	7440-43-9		0.0015	2.78E-04	5.48E-04
Chlorobenzene	108-90-7		0.0002	3.71E-05	7.31E-05
Ethyl Benzene	100-41-4		0.0109	2.02E-03	3.98E-03
Formaldehyde	50-00-0	1.18E-03		3.05E-02	6.00E-02
Hexane	110-54-3		0.0269	4.99E-03	9.83E-03
Hydrogen Chloride	7647-01-0		0.1863	3.46E-02	6.81E-02
Lead	7439-92-1		0.0083	1.54E-03	3.03E-03
Manganese	7439-96-5		0.0031	5.75E-04	1.13E-03
Mercury	7439-97-6		0.0020	3.71E-04	7.31E-04
Naphthalene	91-20-3	8.48E-05		2.19E-03	4.32E-03
Nickel	7440-02-0		0.0039	7.24E-04	1.43E-03
Selenium	7782-49-2		0.0022	4.08E-04	8.04E-04
Toluene	108-88-3	4.09E-04		1.06E-02	2.08E-02
Xylenes	1330-20-7	2.85E-04		7.36E-03	1.45E-02
Carbon dioxide	124-38-9	1.64E+02		4.24E+03	8.35E+03
Aldehydes		7.00E-02		1.81E+00	3.56E+00
Beryllium	7440-41-7		ND	ND	ND
Copper	7440-50-8		0.0041	7.61E-04	1.50E-03
Zinc	7440-66-6		0.0224	4.16E-03	8.19E-03
Methane	74-82-8	3.24E-02		8.37E-01	1.65E+00
Propylene	115-07-1	2.58E-03		6.67E-02	1.31E-01
Acenaphthylene	208-96-8	5.06E-06		1.31E-04	2.57E-04
Acenaphthene	83-32-9	1.42E-06		3.67E-05	7.23E-05
Fluorene	7782-41-4	2.92E-05		7.54E-04	1.49E-03
Phenanthrene	85-01-8	2.94E-05		7.60E-04	1.50E-03
Anthracene	120-12-7	1.87E-06		4.83E-05	9.52E-05
Fluoranthene	206-44-0	7.61E-06		1.97E-04	3.87E-04
Pyrene	129-00-0	4.78E-06		1.24E-04	2.43E-04
Benz(a)anthracene	56-55-3	1.68E-06		4.34E-05	8.55E-05
Chrysene	218-01-9	3.53E-07		9.12E-06	1.80E-05
Benzo(b)fluoranthene	205-99-2	9.91E-08		2.56E-06	5.04E-06
Benzo(k)fluoranthene	207-08-9	1.55E-07		4.00E-06	7.89E-06
Benzo(a)pyrene	50-32-8	1.88E-07		4.86E-06	9.57E-06
Indeno(1,2,3-cd)pyrene	193-39-5	3.75E-07		9.69E-06	1.91E-05
Dibenz(a,h)nathracene	53-70-3	5.83E-07		1.51E-05	2.97E-05
Benzo(g,h,l)perylene	191-24-2	4.89E-07		1.26E-05	2.49E-05
PAH		1.68E-04		4.34E-03	8.55E-03
Dioxins		ND		ND	ND
Furans		ND		ND	ND

Emission Unit N-031, Mobile Diesel Equipment Pool Determination of Modeled Emission Rates December 2010 revision

Attachment 1

Developed equations for Fuel Consumption at Full Load and 75% Load



At full load: fuel consumption = 0.070162*(size in kw)+0.532989
At 75% load: fuel consumption = 0.051341*(size in kw)+0.721437

100% Load

Equp ID	SRO #	Exhaust Point ID	Hour/Yr limit from permit	gal/yr limit*	kW	bHp	gal/hr	gal/yr
76DN	5232	NGE44		43290		335	18.06	4.33E+04
77DN	5289	NGE45		43290		335	18.06	4.33E+04
78DN	6933	NGE46		43290		335	18.06	4.33E+04
50DN	7776	NGE32	4000			315	17.01	6.81E+04
41IN	1334	NGE20	5840			215	11.78	6.88E+04
51DN	7947	NGE28	2200		160	215	11.76	2.59E+04
52DN	7948	NGE29	2200		160	215	11.76	2.59E+04
54DN	7950	NGE31	2200		160	215	11.76	2.59E+04
61DN	5262	NGE39	7500			315	17.01	1.28E+05
62DN	5263	NGE40	7500			315	17.01	1.28E+05
Total							152.28	6.00E+05

At full load: fuel consumption = 0.070162*(size in kw)+0.532989
= 0.070162*(size in Bhp)/1.341022+0.532989
Bhp = kW*1.341022

*synthetic minor with 39.96 TPY Nox limit for all 3 unit together

Determine the maximum modeled fuel rate that corresponds to the fuel cap of 731,110gal/yr for N031:

(max modeled value in gal/hr)/(7.31E05gal/yr) = (152.28 gal/hr)/(6.00E05 gal/yr)

maximum modeled gal/hr = 1.86E02 gal/hr

Emission Unit N-031, Mobile Diesel Equipment Pool Determination of Modeled Emission Rates December 2010 revision

Attachment 2

Release Date: July 2008
Next Release Date: July 2009

Table 1.H3 Physical Characteristics of Biodiesel vs. Ultra Low Sulfur Diesel (ULSD)

	Biodiesel (soybean)	Ultra Low Sulfur Diesel
Heat Content (Btu/gallon)	118,952	139,000
Flash Point (oC)	93	>52
Pour Point (oC)	0	-27
Cloud Point (oC)	2	-23
Sulfur (ppm)	0-2	<15

Sources: Heat contents: (Biodiesel) Energy Information Administration, Monthly Annual Energy Review (November 2007),. Table A3. http://www.eia.doe.gov/emeu/mer/pdf/pages/sec12_3.pdf. (Diesel) Energy Information Administration. http://www.eia.doe.gov/basics/conversion_basics.html. Flash point (Diesel) McCormick, Bob. National Renewable Energy Lab. Renewable Diesel Fuels: Status of Technology and R&D Needs. http://www1.eere.energy.gov/vehicles/fuels/pdfs/deer_2002/session4/2002_deer_mccormick.pdf. August 2002. Flash Point (Biodiesel) Cloud Point (Diesel and Biodiesel) and Pour Point (Diesel and Biodiesel): National Biodiesel Board. Biodiesel Cold Weather Blending Study. http://www.biodiesel.org/resources/reportsdatabase/reports/gen/20050728_gen-354.pdf. Sulfur (Biodiesel). ASTM Specification 6751-07b. http://biodiesel.org/pdf_files/fuelfactsheets/BDSpec.PDF. (Diesel) Environmental Protection Agency, Program Update: Introduction of Cleaner-burning Diesel Fuel Enables Advanced Pollution Control for Cars, Trucks and Buses EPA420-F-06-064. October 2006 http://www.epa.gov/otaq/highway-diesel/regs/420f06064.htm

Energy Information Administration/Renewable Energy Trends In Consumption and Electricity 2006

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Attachment 3

FLEETLINE®

PRODUCT SPECIFICATIONS

PATRIOT B5 BIODIESEL

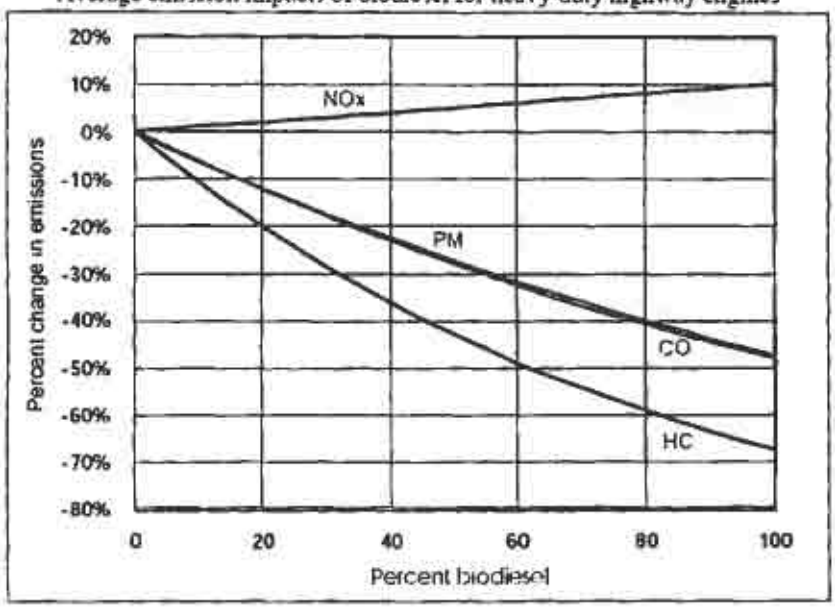
Alternative Fuel Solutions

TEST DESCRIPTION	ASTM METHOD	ASTM NO. 2-D STANDARD (D 975)	TYPICAL ANALYSIS
Biodiesel, Volume %	D 6751	–	5
Cetane Number	D 976	40 min.	45
API Gravity at 16°C (60°F)	D 287	30 min.	34-36
Pour Point, °C (°F)	D 97	–7 (20) max.	–18 (0)*
Cloud Point, °C (°F)	D 2500	–	–12 (10)*
Flash Point (Pensky-Martens), °C (°F)	D 93	52 (125) min.	66 (151)
BTU/Gallon (gross)	–	–	139,200
Sulfur, ppm	D 7039	15 max.	5

Emission Unit N-031, Mobile Diesel Equipment Pool Determination of Modeled Emission Rates December 2010 revision

Attachment 4

Figure ES-A
Average emission impacts of biodiesel for heavy-duty highway engines



Form F
Summary of SRNS-J2220-2010-00217 revision:

1. Facility Wide emissions were changed based on removal and inclusion of equipment (e.g., removal of K002 and inclusion of new Ameresco K & L boilers).

FACILITY WIDE TOTAL EMISSIONS			
1. Pollutant	2. CAS No. (If Applicable)	3. Uncontrolled Emissions (TPY)	4. Controlled Emissions (TPY)
STANDARD 2 (CRITERIA) POLLUTANTS			
CARBON MONOXIDE	630-08-0	2.88E+02	2.87E+02
HYDROGEN FLUORIDE	7664-39-3	2.13E+01	2.13E+01
LEAD	7439-92-1	5.87E+00	3.14E+00
OXIDES OF NITROGEN (NOX)	--	5.07E+03	5.03E+03
OXIDES OF SULFUR (SOX)	--	7.72E+03	7.72E+03
PARTICULATE MATTER (10 MICRONS)	--	1.77E+03	8.29E+02
PARTICULATE MATTER (2.5 MICRONS)	--	1.24E+03	7.04E+02
TOTAL PARTICULATE MATTER (PM)	--	4.34E+03	1.34E+03
VOC (OZONE PRECURSORS)	--	1.77E+02	1.74E+02
STANDARD 8 (TOXIC AND HAZARDOUS) POLLUTANTS			
1,2 - DICHLOROPROPANE (PROPYLENE DICHLORIDE)	78-87-5	8.85E-04	8.85E-04
ACETALDEHYDE	75-07-0	3.42E-01	3.42E-01
ACETONITRILE	75-05-8	8.75E-02	8.75E-04
ACETOPHENONE	98-86-2	2.14E-03	2.14E-03
ACROLEIN	107-02-8	8.56E-01	8.56E-01
AMMONIUM CHLORIDE	12125-02-9	3.07E+00	1.50E-01
ANILINE	62-53-3	8.75E-02	8.75E-04
ANTIMONY	7440-36-0	1.20E-02	1.01E-02
ANTIMONY COMPOUNDS (AS SB2O3)	--	7.91E-03	7.91E-03
ARSENIC	7440-38-2	2.74E+00	4.69E-02
ARSENIC COMPOUNDS (AS AS2O3)	--	1.80E-03	1.80E-03
BENZENE	71-43-2	2.08E+00	1.96E+00
BERYLLIUM	7440-41-7	3.03E-01	6.03E-03
BERYLLIUM COMPOUNDS (AS BEO)	--	3.54E-03	3.54E-03
BIPHENYL (DIPHENYL)	92-52-4	4.13E-06	4.13E-06
BIS-(2-ETHYLHEXYL)PHTHALATE (DEHP)	117-81-7	1.04E-02	1.04E-02
BUTADIENE (1, 3-)	106-99-0	6.50E-02	6.50E-02
CADMIUM	7440-43-9	2.34E-01	6.05E-03
CADMIUM COMPOUNDS (AS CDO)	--	1.91E-03	1.91E-03
CARBON DISULFIDE	75-15-0	1.85E-02	1.85E-02
CARBON TETRACHLORIDE	56-23-5	1.57E+00	1.49E+00
CHLORINE	7782-50-5	2.95E+00	8.72E-01
CHLOROBENZENE	108-90-7	9.74E-02	1.08E-02

CHLOROFORM	67-66-3	1.11E+01	1.10E+01
CHROMIC OXIDE	1308-38-9	2.45E-05	2.45E-05
CHROMIUM	7440-47-3	3.88E-01	3.79E-01
CHROMIUM (+6) COMPOUNDS	--	1.10E-03	1.10E-03
CHROMIUM COMPOUNDS (AS CR2O3)	--	7.75E-01	2.36E-01
CHROMIUM OXIDE	12218-36-9	2.45E-06	2.45E-06
COBALT	7440-48-4	1.11E-02	1.11E-02
COBALT (II, III) OXIDE	1308-06-1	1.32E-09	1.32E-09
COBALT COMPOUNDS (AS COO)	--	1.70E-02	2.97E-03
COBALT NITRATE HEXAHYDRATE	10026-22-9	8.08E-12	8.08E-15
COBALTOUS FORMATE	544-18-3	6.66E-12	8.79E-15
COBALTOUS OXIDE	1307-96-6	2.75E-08	1.32E-08
CRESOL	1319-77-3	8.75E-02	8.81E-04
CUMENE	98-82-8	8.37E-04	8.37E-04
DINITROPHENOL (2, 4-)	51-28-5	3.63E-05	3.63E-05
DINITROTOLUENE (2, 4-)	121-14-2	8.75E-02	8.75E-04
DIOXANE (1, 4)	123-91-1	8.75E-02	8.75E-04
ETHYL BENZENE	100-41-4	1.41E-01	1.33E-01
ETHYLENE DICHLORIDE	107-06-2	6.47E-03	6.47E-03
ETHYLIDENE DICHLORIDE (DICHLOROETHANE (1, 1-))	75-34-3	1.75E-03	1.75E-03
FORMALDEHYDE	50-00-0	1.96E+00	1.87E+00
FORMIC ACID	64-18-6	3.04E-01	3.85E-02
HEXANE	110-54-3	3.99E-01	3.99E-01
HYDRAZINE	302-01-2	8.75E-02	8.75E-04
HYDROCHLORIC ACID (HYDROGEN CHLORIDE)	7647-01-0	1.75E+02	1.75E+02
ISOPHORONE	78-59-1	8.26E-02	8.26E-02
LEAD COMPOUNDS (AS PBO)	--	9.53E-02	9.53E-02
LEAD NITRATE	10099-74-8	2.19E-11	2.27E-14
LEAD OXIDE (IV)	1317-36-8	7.06E-07	7.06E-07
LEAD SULFATE	7446-14-2	1.65E-05	1.65E-05
MANGANESE	7439-96-5	6.54E-01	5.23E-01
MANGANESE COMPOUNDS (AS MNO2)	--	6.17E+00	3.14E-01
MANGANESE DIOXIDE	1313-13-9	1.24E-07	1.59E-10
MANGANESE FORMATE	3251-96-5	1.58E-07	2.40E-10
MANGANESE OXIDE	1317-34-6	4.66E-04	4.66E-04
MANGANESE TETROXIDE	1317-35-7	1.34E-08	1.34E-08
MANGANOUS NITRATE	10377-66-9	8.75E-13	8.75E-16
MERCURY (ELEMENTAL)	7439-97-6	7.05E-01	2.54E-01

MERCURY COMPOUNDS (AS HGO)	--	2.66E-01	1.79E-01
MERCURY OXIDE	15829-53-5	1.55E-10	1.55E-13
METHYL ALCOHOL (METHANOL)	67-56-1	8.75E-02	8.75E-04
METHYL BROMIDE	74-83-9	2.58E-02	2.58E-02
METHYL CHLORIDE	74-87-3	8.01E-02	8.01E-02
METHYL CHLOROFORM (TRICHLOROETHANE (1, 1, 1-))	71-55-6	1.39E+01	1.39E+01
METHYL ETHYL KETONE (2-BUTANONE)	78-93-3	1.45E-01	5.84E-02
METHYL HYDRAZINE	60-34-4	2.42E-02	2.42E-02
METHYL ISOBUTYL KETONE(4-METHYL-2-PENTANONE)	108-10-1	8.75E-02	8.75E-04
METHYL METHACRYLATE	80-62-6	8.75E-02	8.75E-04
METHYL TERT-BUTYL ETHER	1634-04-4	7.11E-01	6.49E-01
METHYLENE CHLORIDE	75-09-2	5.27E+00	5.27E+00
NAPHTHALENE	91-20-3	1.48E-01	6.15E-02
NICKEL	7440-02-0	7.66E+00	3.41E+00
NICKEL COMPOUNDS (AS NIO)	--	2.72E-01	2.72E-01
NICKEL FORMATE	6/2/3349	1.22E-09	2.40E-12
NICKEL NITRATE	13138-45-9	9.55E-12	9.55E-15
NICKEL OXIDE	1313-99-1	4.64E-05	4.64E-05
NITRIC ACID	7697-37-2	7.03E+00	6.94E+00
NITROGEN DIOXIDE (NO2)	10102-44-0	5.05E+03	5.01E+03
NITROPHENOL (P-)	100-02-7	2.23E-05	2.23E-05
OXALIC ACID	144-62-7	2.48E-01	1.61E-01
PENTACHLOROPHENOL	87-86-5	1.03E-05	1.03E-05
PHENOL	108-95-2	1.26E-02	1.26E-02
PHOSPHORUS (YELLOW OR WHITE)	7723-14-0	1.82E-02	4.31E-03
POLYCHLORINATED BIPHENYLS (PCB)	--	5.39E-03	5.39E-03
POLYCYCLIC ORGANIC MATTER	--	2.60E-02	2.60E-02
POTASSIUM PERMANGANATE	7722-64-7	3.34E-10	6.57E-42
PROPIONALDEHYDE	123-38-6	6.65E-02	6.65E-02
SELENIUM	7782-49-2	1.93E-01	8.71E-03
SELENIUM COMPOUNDS (AS SEO2)	--	5.74E-03	5.74E-03
SELENIUM DIOXIDE	7446-8-4	8.75E-02	8.75E-04
SODIUM HYDROXIDE (CAUSTIC SODA)	1310-73-2	5.58E-01	4.71E-01
STYRENE	100-42-5	3.88E-01	3.88E-01
SULFUR DIOXIDE	7446-9-5	7.72E+03	7.72E+03
SULFURIC ACID	7664-93-9	8.77E-02	1.08E-03
TETRACHLORINATED DIBENZO-P-DIOXINS	1746-01-6	1.43E-08	1.43E-08

TETRACHLOROETHANE (1, 1, 2, 2-)	79-34-5	8.75E-02	8.75E-04
TETRACHLOROETHYLENE (PERCHLOROETHYLENE)	127-18-4	4.98E+02	4.98E+02
TOLUENE	108-88-3	2.68E+00	2.48E+00
TRICHLOROETHYLENE (TCE)	79-01-6	8.85E+01	8.84E+01
TRICHLOROPHENOL (2, 4, 6-)	88-06-2	4.44E-06	4.44E-06
TRIMETHYLPENTANE (2, 2, 4-) (ISOOCTANE)	540-84-1	3.99E-03	3.99E-03
VINYL CHLORIDE	75-01-4	1.48E-01	6.12E-02
VINYLIDENE CHLORIDE (DICHLOROETHYLENE (1, 1-))	75-35-4	8.16E-01	8.16E-01
XYLENE (M-)	108-38-3	1.13E-01	9.54E-02
XYLENE (MIXED ISOMERS)(XYLOL)	1330-20-7	1.47E+00	1.25E+00
XYLENE (O-)	95-47-6	3.06E-01	2.43E-01
XYLENE (P-)	106-42-3	1.42E-01	1.17E-01

Summary of changes for Form G for SRNS-J2220-2010-00217:

1. Removed 12GH. This diesel generator has been abandoned in place, refer to SRNS-J2220-2010-00055.
2. Addition of 463N in C-Area, refer to SRNS-J2220-2010-00206. Installation date is utilized in column 3.

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	A-Area Insignificant Activities					
123A	501-A EMERGENCY DIESEL GENERATOR (100 KW)	01/1985	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
024A	503-2A EMERGENCY DIESEL GENERATOR (400 KW)	0080-0042-CA 07/1985	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
25DA	702-A EMERGENCY DIESEL GENERATOR (250 KW)	01/1995	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
104A	703-A EMERGENCY DIESEL GENERATOR (200 KW)	0080-0042-CA 07/1985	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
545A	715-1A UNDERGROUND DIESEL FUEL TANK (5,000 GAL)	12/1989	Y (B.3)	VOCs, Total HAPs	N/A	Meets regulatory requirement for tank <10,000 gallons
547A	715-7A UNDERGROUND GASOLINE TANK #1 (5,000 GAL)	02/1990	Y (B.3)	VOCs, Total HAPs	N/A	Meets regulatory requirement for tank <10,000 gallons
549A	715-8A UNDERGROUND GASOLINE TANK #2 (5,000 GAL)	02/1990	Y (B.3)	VOCs, Total HAPs	N/A	Meets regulatory requirement for tank <10,000 gallons
74DA	737-24A EMERGENCY GENERATOR (125 KW)	11/1996	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
784A	737-2A EMERGENCY DIESEL GENERATOR (155 KW)	0080-0041 8/1993	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
72GA	737-A EMERGENCY DIESEL GENERATOR (125 KW)	10/2002	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
06DA	737-A EMERGENCY DIESEL GENERATOR (55KW)	05/1992	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW

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596A	754-5A DIESEL FUEL TANK #1 (5,000 GA)	01/1992	Y (B.3)	VOCs, Total HAPs	N/A	Meets regulatory requirement for tank <10,000 gallons
574A	754-5A EMERGENCY DIESEL GENERATOR #1 (1,250 KW)	0080-0042-CD 01/1990	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
575A	754-5A EMERGENCY DIESEL GENERATOR #2 (1,250 KW)	0080-0042-CE 01/1990	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
73DA	782-3A EMERGENCY DIESEL GENERATOR (80 KW)	04/1997	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
79GA	794-A EMERGENCY DIESEL GENERATOR (680 KW)	10/2009	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
535A	PAAC EMERGENCY DIESEL GENERATOR (455 KW)	0080-0042-CC 12/1987	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
21EA	SRNL EMERGENCY DIESEL GENERATOR (455 KW)	10/1998	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
064A	711-A VALVE SHOP	10/1988	N	TOTAL PARTICULATE MATTER (PM)	8.78E-01	5.0
064A	711-A VALVE SHOP	10/1988	N	PARTICULATE MATTER (10 MICRONS)	4.23E-01	5.0
064A	711-A VALVE SHOP	10/1988	N	PARTICULATE MATTER (2.5 MICRONS)	4.23E-02	5.0
546A	715-A DIESEL FUEL DISPENSING STATION	01/1954	N	TOTAL TAPS/HAPS	7.57E-01	0.5
				BENZENE	4.81E-02	0.5
				TOLUENE	6.01E-02	0.5
				XYLENE (M-)	6.01E-02	0.5
				XYLENE (MIXED ISOMERS)(XYLOL)	3.25E-01	0.5

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				XYLENE (O-)	1.80E-01	0.5
				XYLENE (P-)	8.41E-02	0.5
546A	715-A DIESEL FUEL DISPENSING STATION	01/1954	N	VOC (OZONE PRECURSORS)	8.05E-01	5.0
714A	715-A GASOLINE STATION FUGITIVES	01/1954	N	TOTAL TAPS/HAPS	1.10E+00	0.5
				BENZENE	8.32E-02	0.5
				ETHYL BENZENE	4.16E-02	0.5
				METHYL TERT-BUTYL ETHER	3.12E-01	0.5
				TOLUENE	4.57E-01	0.5
				XYLENE (MIXED ISOMERS)(XYLOL)	2.08E-01	0.5
714A	715-A GASOLINE STATION FUGITIVES	01/1954	N	VOC (OZONE PRECURSORS)	1.21E+00	5.0
48FA	715-A ETHANOL TANK (10,000 GAL)	10/1999	N	TOTAL TAPS/HAPS	2.55E-04	0.5
48FA	715-A ETHANOL TANK (10,000 GAL)	10/1999	N	VOC (OZONE PRECURSORS)	1.08E-01	5.0
793A	722-4A BAKE OVEN	01/1991	N	CARBON MONOXIDE	1.84E-02	5.0
793A	722-4A BAKE OVEN	01/1991	N	OXIDES OF NITROGEN (NOX)	1.36E-02	5.0
793A	722-4A BAKE OVEN	01/1991	N	OXIDES OF SULFUR (SOX)	1.94E-04	5.0
793A	722-4A BAKE OVEN	01/1991	N	TOTAL PARTICULATE MATTER (PM)	7.74E-03	5.0
793A	722-4A BAKE OVEN	01/1991	N	PARTICULATE MATTER (10 MICRONS)	3.87E-03	5.0
793A	722-4A BAKE OVEN	01/1991	N	PARTICULATE MATTER (2.5 MICRONS)	3.87E-03	5.0
540A	722-4A BENCH OVEN	06/1989	N	TOTAL TAPS/HAPS	2.45E-01	0.5
540A	722-4A BENCH OVEN	06/1989	N	VOC (OZONE PRECURSORS)	1.21E+00	5.0

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531A	722-A INDUSTRIAL SHOP	01/1984	N	TOTAL PARTICULATE MATTER (PM)	4.92E-01	5.0
531A	722-A INDUSTRIAL SHOP	01/1984	N	PARTICULATE MATTER (10 MICRONS)	2.37E-01	5.0
531A	722-A INDUSTRIAL SHOP	01/1984	N	PARTICULATE MATTER (2.5 MICRONS)	2.37E-02	5.0
54FA	731-2A ARV-001 BAROBALL CLUSTER	09/2001	N	TOTAL TAPS/HAPS	1.36E-01	0.5
54FA	731-2A ARV-001 BAROBALL CLUSTER	09/2001	N	VOC (OZONE PRECURSORS)	1.25E-01	5.0
55FA	731-2A ARV-002 BAROBALL CLUSTER	09/2001	N	TOTAL TAPS/HAPS	1.36E-01	0.5
55FA	731-2A ARV-002 BAROBALL CLUSTER	09/2001	N	VOC (OZONE PRECURSORS)	1.25E-01	5.0
56FA	731-2A ARV-003 BAROBALL CLUSTER	09/2001	N	TOTAL TAPS/HAPS	1.36E-01	0.5
56FA	731-2A ARV-003 BAROBALL CLUSTER	09/2001	N	VOC (OZONE PRECURSORS)	1.25E-01	5.0
57FA	731-2A ARV-004 BAROBALL CLUSTER	09/2001	N	TOTAL TAPS/HAPS	1.36E-01	0.5
57FA	731-2A ARV-004 BAROBALL CLUSTER	09/2001	N	VOC (OZONE PRECURSORS)	1.25E-01	5.0
58FA	731-2A ARV-005 BAROBALL CLUSTER	09/2001	N	TOTAL TAPS/HAPS	1.36E-01	0.5
58FA	731-2A ARV-005 BAROBALL CLUSTER	09/2001	N	VOC (OZONE PRECURSORS)	1.25E-01	5.0
59FA	731-2A ARV-006 BAROBALL CLUSTER	09/2001	N	TOTAL TAPS/HAPS	1.36E-01	0.5
59FA	731-2A ARV-006 BAROBALL CLUSTER	09/2001	N	VOC (OZONE PRECURSORS)	1.25E-01	5.0
60FA	731-2A ARV-007 BAROBALL CLUSTER	09/2001	N	TOTAL TAPS/HAPS	1.36E-01	0.5
60FA	731-2A ARV-007 BAROBALL CLUSTER	09/2001	N	VOC (OZONE PRECURSORS)	1.25E-01	5.0
61FA	731-2A ARV-008 BAROBALL CLUSTER	09/2001	N	TOTAL TAPS/HAPS	1.36E-01	0.5

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61FA	731-2A ARV-008 BAROBALL CLUSTER	09/2001	N	VOC (OZONE PRECURSORS)	1.25E-01	5.0
62FA	731-2A ARV-009 BAROBALL CLUSTER	09/2001	N	TOTAL TAPS/HAPS	1.36E-01	0.5
62FA	731-2A ARV-009 BAROBALL CLUSTER	09/2001	N	VOC (OZONE PRECURSORS)	1.25E-01	5.0
63FA	731-2A ARV-010 BAROBALL CLUSTER	09/2001	N	TOTAL TAPS/HAPS	1.36E-01	0.5
63FA	731-2A ARV-010 BAROBALL CLUSTER	09/2001	N	VOC (OZONE PRECURSORS)	1.25E-01	5.0
70DA	731-5A PASSIVE SOIL VAPOR EXTRACTION SYSTEM	08/1996	N	TOTAL TAPS/HAPS	1.12E-03	0.5
70DA	731-5A PASSIVE SOIL VAPOR EXTRACTION SYSTEM	08/1996	N	VOC (OZONE PRECURSORS)	9.29E-04	5.0
70GA	784-7A STEAM FACILITY FUEL OIL TANK (25,000 GAL)	08/2008	N	TOTAL TAPS/HAPS	7.47E-03	0.5
70GA	784-7A STEAM FACILITY FUEL OIL TANK (25,000 GAL)	08/2008	N	VOC (OZONE PRECURSORS)	1.59E-02	5.0
83FA	ABRP TRENCH SVEU	07/2002	N	TOTAL TAPS/HAPS	4.95E-01	0.5
83FA	ABRP TRENCH SVEU	07/2002	N	VOC (OZONE PRECURSORS)	4.97E-01	5.0
	B-Area Insignificant Activities					
026B	703-5B EMERGENCY GASOLINE GENERATOR (15 KW)	01/1985	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
117B	735-1B SERVICE WATER HEATER (196,000 BTU/HR)	10/1998	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
056B	754-2B EMERGENCY DIESEL GENERATOR (35 KW)	01/1985	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
022B	902-5B DIESEL FIRE PUMP (370 BHP)	01/1993	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for emergency fire pump

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024B	703-5B JET FUEL DISPENSING STATION	01/1985	N	TOTAL TAPS/HAPS	1.31E-05	0.5
024B	703-5B JET FUEL DISPENSING STATION	01/1985	N	VOC (OZONE PRECURSORS)	2.79E-05	5.0
025B	703-5B JET FUEL TANK (12,000 GAL)	01/1985	N	TOTAL TAPS/HAPS	1.56E-02	0.5
025B	703-5B JET FUEL TANK (12,000 GAL)	01/1985	N	VOC (OZONE PRECURSORS)	3.31E-02	5.0
114B	735-1B FUEL OIL TANK # 1 (15,000 GAL)	10/1998	N	TOTAL TAPS/HAPS	3.77E-03	0.5
114B	735-1B FUEL OIL TANK # 1 (15,000 GAL)	10/1998	N	VOC (OZONE PRECURSORS)	8.00E-03	5.0
115B	735-1B FUEL OIL TANK # 2 (15,000 GAL)	10/1998	N	TOTAL TAPS/HAPS	3.77E-03	0.5
115B	735-1B FUEL OIL TANK # 2 (15,000 GAL)	10/1998	N	VOC (OZONE PRECURSORS)	8.00E-03	5.0
	C-Area Insignificant Activities					
209C	702-1C EMERGENCY DIESEL GENERATOR (115 KW)	01/1995	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
241C	105-C FUEL OIL TANK (20,000 GAL)	11/2009	N	TOTAL TAPS/HAPS	3.43E-03	0.5
241C	105-C FUEL OIL TANK (20,000 GAL)	11/2009	N	VOC (OZONE PRECURSORS)	7.29E-03	5.0
240C	CBRP SOIL VAPOR EXTRACTION UNIT	12/2004	N	TOTAL TAPS/HAPS	3.30E-02	0.5
240C	CBRP SOIL VAPOR EXTRACTION UNIT	12/2004	N	VOC (OZONE PRECURSORS)	3.30E-02	5.0
463N	707-C EMERGENCY DIESEL GENERATOR (260 KW)	05/1993	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator

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	D-Area Insignificant Activities					
202D	717-D BUBBLE TOWERS	3/2010	N	TOTAL HAPS	2.31E-01	0.5
202D	717-D BUBBLE TOWERS	3/2010	N	VOC (OZONE PRECURSORS)	5.98E-02	5.0
	E-Area Insignificant Activities					
141E	664-E LLWS	09/1992	N	TOTAL PARTICULATE MATTER (PM)	5.61E-01	5.0
141E	664-E LLWS	09/1992	N	PARTICULATE MATTER (10 MICRONS)	5.61E-01	5.0
141E	664-E LLWS	09/1992	N	PARTICULATE MATTER (2.5 MICRONS)	5.61E-01	5.0
152E	660-6E VISUAL EXAMINATION FACILITY (TRU VENT AND PURGE)	05/2003	N	TOTAL PARTICULATE MATTER (PM)	2.63E-01	5.0
152E	660-6E VISUAL EXAMINATION FACILITY (TRU VENT AND PURGE)	05/2003	N	PARTICULATE MATTER (10 MICRONS)	2.63E-01	5.0
152E	660-6E VISUAL EXAMINATION FACILITY (TRU VENT AND PURGE)	05/2003	N	PARTICULATE MATTER (2.5 MICRONS)	2.63E-01	5.0
152E	660-6E VISUAL EXAMINATION FACILITY (TRU VENT AND PURGE)	05/2003	N	TOTAL TAPS/HAPS	2.36E+00	0.5
				ACETONITRILE	8.75E-02	0.5
				ANILINE	8.75E-02	0.5
				BENZENE	8.75E-02	0.5
				CARBON TETRACHLORIDE	8.75E-02	0.5
				CHLOROBENZENE	8.75E-02	0.5

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				CHLOROFORM	8.75E-02	0.5
				CRESOL	8.75E-02	0.5
				DINITROTOLUENE (2, 4-)	8.75E-02	0.5
				DIOXANE (1, 4)	8.75E-02	0.5
				FORMALDEHYDE	8.75E-02	0.5
				FORMIC ACID	8.75E-02	0.5
				HYDRAZINE	8.75E-02	0.5
				HYDROCHLORIC ACID (HYDROGEN CHLORIDE)	8.75E-02	0.5
				MERCURY (ELEMENTAL)	8.75E-02	0.5
				MERCURY COMPOUNDS (AS HGO)	8.75E-02	0.5
				METHYL ALCOHOL (METHANOL)	8.75E-02	0.5
				METHYL ETHYL KETONE (2-BUTANONE)	8.75E-02	0.5
				METHYL ISOBUTYL KETONE(4-METHYL-2-PENTAN	8.75E-02	0.5
				METHYL METHACRYLATE	8.75E-02	0.5
				NAPHTHALENE	8.75E-02	0.5
				NITRIC ACID	8.75E-02	0.5
				OXALIC ACID	8.75E-02	0.5
				SELENIUM DIOXIDE	8.75E-02	0.5
				SODIUM HYDROXIDE (CAUSTIC SODA)	8.75E-02	0.5

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				SULFURIC ACID	8.75E-02	0.5
				TETRACHLOROETHANE (1, 1, 2, 2-)	8.75E-02	0.5
				TETRACHLOROETHYLENE (PERCHLOROETHYLENE)	8.75E-02	0.5
				TOLUENE	8.75E-02	0.5
				TRICHLOROETHYLENE (TCE)	8.75E-02	0.5
				VINYL CHLORIDE	8.75E-02	0.5
				XYLENE (MIXED ISOMERS)(XYLOL)	8.75E-02	0.5
152E	660-6E VISUAL EXAMINATION FACILITY (TRU VENT AND PURGE)	05/2003	N	VOC (OZONE PRECURSORS)	1.49E+00	5.0
	F-Area Insignificant Activities					
85IF	254-13F EMERGENCY DIESEL GENERATOR #1 (800 KW)	0080-0041-F-CN 05/2000	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
86IF	254-13F EMERGENCY DIESEL GENERATOR #2 (800 KW)	0090-0041-F-CN 05/2000	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
918F	254-8F EMERGENCY DIESEL GENERATOR (350 KW)	0080-0045-CH 04/1987	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
176F	254-9F EMERGENCY DIESEL GENERATOR (300 KW)	0080-0045-CF 01/1986	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
923F	292-2F EMERGENCY DIESEL GENERATOR (300 KW)	0080-0045-CD 02/1985	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator

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49HF	902-3F EMERGENCY DIESEL FIRE PUMP NO. 1 (330 BHP)	05/1994	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for emergency fire pump
50HF	902-3F EMERGENCY DIESEL FIRE PUMP NO. 2 (330 BHP)	05/1994	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for emergency fire pump
15JF	905-100F EMERGENCY DIESEL GENERATOR (150 KW)	06/2001	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
709F	F LABS EMERGENCY DIESEL GENERATOR #1 (175 KW)	0080-0045-C 01/1984	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
715F	F LABS EMERGENCY. DIESEL GENERATOR #2 (175 KW)	0080-0045-C 01/1984	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
340F	772-1F F LABS EMERGENCY. DIESEL GENERATOR #3 (415 KW)	0080-0045-CA 01/1985	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
718F	FAMS EMERGENCY DIESEL GENERATOR (350 KW)	01/1960	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
028F	241-21F DIVERSION BOX 4 & PUMP PIT 2 & 3	02/1978	N	TOTAL TAPS/HAPS	9.40E-06	0.5
028F	241-21F DIVERSION BOX 4 & PUMP PIT 2 & 3	02/1978	N	VOC (OZONE PRECURSORS)	1.11E-02	5.0
029F	241-21F DIVERSION BOX 4 & TANK #2 (6,000 GAL)	02/1978	N	TOTAL PARTICULATE MATTER (PM)	6.80E-06	5.0
029F	241-21F DIVERSION BOX 4 & TANK #2 (6,000 GAL)	02/1978	N	PARTICULATE MATTER (10 MICRONS)	3.40E-06	5.0
029F	241-21F DIVERSION BOX 4 & TANK #2 (6,000 GAL)	02/1978	N	PARTICULATE MATTER (2.5 MICRONS)	3.40E-06	5.0
029F	241-21F DIVERSION BOX 4 & TANK #2 (6,000 GAL)	02/1978	N	TOTAL TAPS/HAPS	3.40E-06	0.5
029F	241-21F DIVERSION BOX 4 & TANK #2 (6,000 GAL)	02/1978	N	VOC (OZONE PRECURSORS)	3.10E-04	5.0

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030F	241-21F DIVERSION BOX 4 & TANK #3 (6,000 GAL)	02/1978	N	TOTAL PARTICULATE MATTER (PM)	6.80E-06	5.0
030F	241-21F DIVERSION BOX 4 & TANK #3 (6,000 GAL)	02/1978	N	PARTICULATE MATTER (10 MICRONS)	3.40E-06	5.0
030F	241-21F DIVERSION BOX 4 & TANK #3 (6,000 GAL)	02/1978	N	PARTICULATE MATTER (2.5 MICRONS)	3.40E-06	5.0
030F	241-21F DIVERSION BOX 4 & TANK #3 (6,000 GAL)	02/1978	N	TOTAL TAPS/HAPS	3.40E-06	0.5
030F	241-21F DIVERSION BOX 4 & TANK #3 (6,000 GAL)	02/1978	N	VOC (OZONE PRECURSORS)	3.10E-04	5.0
022F	241-F DILUTION FACILITY	01/1997	N	TOTAL PARTICULATE MATTER (PM)	3.95E-06	5.0
022F	241-F DILUTION FACILITY	01/1997	N	PARTICULATE MATTER (10 MICRONS)	3.95E-06	5.0
022F	241-F DILUTION FACILITY	01/1997	N	PARTICULATE MATTER (2.5 MICRONS)	3.95E-06	5.0
140F	241-F DIVERSION BOX 2	02/1985	N	TOTAL PARTICULATE MATTER (PM)	3.09E-05	5.0
140F	241-F DIVERSION BOX 2	02/1985	N	PARTICULATE MATTER (10 MICRONS)	1.03E-05	5.0
140F	241-F DIVERSION BOX 2	02/1985	N	PARTICULATE MATTER (2.5 MICRONS)	1.03E-05	5.0
140F	241-F DIVERSION BOX 2	02/1985	N	TOTAL TAPS/HAPS	2.06E-05	0.5
140F	241-F DIVERSION BOX 2	02/1985	N	VOC (OZONE PRECURSORS)	1.22E-02	5.0
181F	241-F WASTE TANK 1 (750,000 GAL)	01/1953	N	TOTAL TAPS/HAPS	1.97E-05	0.5
181F	241-F WASTE TANK 1 (750,000 GAL)	01/1953	N	VOC (OZONE PRECURSORS)	2.45E-02	5.0
069F	241-F WASTE TANK 2 (750,000 GAL)	01/1953	N	TOTAL TAPS/HAPS	1.59E-05	0.5
069F	241-F WASTE TANK 2 (750,000 GAL)	01/1953	N	VOC (OZONE PRECURSORS)	2.45E-02	5.0
183F	241-F WASTE TANK 3 (750,000 GAL)	01/1953	N	TOTAL TAPS/HAPS	1.57E-05	0.5
183F	241-F WASTE TANK 3 (750,000 GAL)	01/1953	N	VOC (OZONE PRECURSORS)	1.96E-02	5.0

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071F	241-F WASTE TANK 4 (750,000 GAL)	01/1953	N	TOTAL TAPS/HAPS	1.38E-05	0.5
071F	241-F WASTE TANK 4 (750,000 GAL)	01/1953	N	VOC (OZONE PRECURSORS)	1.72E-02	5.0
092F	241-F WASTE TANK 5 (750,000 GAL)	01/1953	N	TOTAL TAPS/HAPS	1.67E-05	0.5
092F	241-F WASTE TANK 5 (750,000 GAL)	01/1953	N	VOC (OZONE PRECURSORS)	2.09E-02	5.0
145F	241-F WASTE TANK 6 (750,000 GAL)	01/1953	N	TOTAL TAPS/HAPS	1.66E-05	0.5
145F	241-F WASTE TANK 6 (750,000 GAL)	01/1953	N	VOC (OZONE PRECURSORS)	2.07E-02	5.0
041F	241-F WASTE TANK 7 (750,000 GAL)	01/1953	N	TOTAL TAPS/HAPS	2.34E-05	0.5
041F	241-F WASTE TANK 7 (750,000 GAL)	01/1953	N	VOC (OZONE PRECURSORS)	2.92E-02	5.0
135F	241-F WASTE TANK 8 (750,000 GAL)	01/1953	N	TOTAL TAPS/HAPS	1.73E-05	0.5
135F	241-F WASTE TANK 8 (750,000 GAL)	01/1953	N	VOC (OZONE PRECURSORS)	2.16E-02	5.0
101F	241-F WASTE TANK 18 (1,300,000 GAL)	01/1959	N	TOTAL TAPS/HAPS	4.17E-05	0.5
101F	241-F WASTE TANK 18 (1,300,000 GAL)	01/1959	N	VOC (OZONE PRECURSORS)	5.20E-02	5.0
106F	241-F WASTE TANK 19 (1,300,000 GAL)	01/1958	N	TOTAL TAPS/HAPS	7.44E-05	0.5
106F	241-F WASTE TANK 19 (1,300,000 GAL)	01/1958	N	VOC (OZONE PRECURSORS)	9.29E-02	5.0
117F	241-F WASTE TANK 25 (1,300,000 GAL)	01/1980	N	TOTAL TAPS/HAPS	1.57E-05	0.5
117F	241-F WASTE TANK 25 (1,300,000 GAL)	01/1980	N	VOC (OZONE PRECURSORS)	1.96E-02	5.0
118F	241-F WASTE TANK 26 (1,300,000 GAL)	01/1980	N	TOTAL TAPS/HAPS	1.61E-05	0.5
118F	241-F WASTE TANK 26 (1,300,000 GAL)	01/1980	N	VOC (OZONE PRECURSORS)	1.91E-02	5.0

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045F	241-F WASTE TANK 27 (1,300,000 GAL)	01/1980	N	TOTAL TAPS/HAPS	1.45E-05	0.5
045F	241-F WASTE TANK 27 (1,300,000 GAL)	01/1980	N	VOC (OZONE PRECURSORS)	1.81E-02	5.0
149F	241-F WASTE TANK 28 (1,300,000 GAL)	01/1980	N	TOTAL TAPS/HAPS	1.51E-05	0.5
149F	241-F WASTE TANK 28 (1,300,000 GAL)	01/1980	N	VOC (OZONE PRECURSORS)	1.88E-02	5.0
358F	241-F WASTE TANK 33 (1,300,000 GAL)	01/1969	N	TOTAL TAPS/HAPS	1.12E-05	0.5
358F	241-F WASTE TANK 33 (1,300,000 GAL)	01/1969	N	VOC (OZONE PRECURSORS)	1.32E-02	5.0
047F	241-F WASTE TANK 34 (1,300,000 GAL)	01/1972	N	TOTAL TAPS/HAPS	1.38E-05	0.5
047F	241-F WASTE TANK 34 (1,300,000 GAL)	01/1972	N	VOC (OZONE PRECURSORS)	1.63E-02	5.0
378F	241-F WASTE TANK 44 (1,300,000 GAL)	01/1982	N	TOTAL TAPS/HAPS	1.39E-05	0.5
378F	241-F WASTE TANK 44 (1,300,000 GAL)	01/1982	N	VOC (OZONE PRECURSORS)	2.52E-04	5.0
066F	241-F WASTE TANK 45 (1,300,000 GAL)	01/1982	N	TOTAL TAPS/HAPS	1.46E-05	0.5
066F	241-F WASTE TANK 45 (1,300,000 GAL)	01/1982	N	VOC (OZONE PRECURSORS)	1.73E-02	5.0
081F	241-F WASTE TANK 46 (1,300,000 GAL)	01/1982	N	TOTAL TAPS/HAPS	1.49E-05	0.5
081F	241-F WASTE TANK 46 (1,300,000 GAL)	01/1982	N	VOC (OZONE PRECURSORS)	1.85E-02	5.0
353F	241-F WASTE TANK 47 (1,300,000 GAL)	01/1982	N	TOTAL TAPS/HAPS	1.93E-05	0.5
353F	241-F WASTE TANK 47 (1,300,000 GAL)	01/1982	N	VOC (OZONE PRECURSORS)	2.41E-02	5.0
48EF	242-16F OVERHEAD RECEIVER TANK (1250 GAL)	01/1980	N	TOTAL TAPS/HAPS	5.67E-08	0.5
48EF	242-16F OVERHEAD RECEIVER TANK (1250 GAL)	01/1980	N	VOC (OZONE PRECURSORS)	6.72E-05	5.0

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49EF	242-16F EVAPORATOR 2F PROCESS	01/1980	N	TOTAL TAPS/HAPS	5.43E-08	0.5
49EF	242-16F EVAPORATOR 2F–PROCESS	01/1980	N	VOC (OZONE PRECURSORS)	6.43E-05	5.0
48HF	242-16F OVERHEAD RECEIVER TANK (1250 GAL)	01/1961	N	TOTAL TAPS/HAPS	2.72E-05	0.5
48HF	242-16F OVERHEAD RECEIVER TANK (1250 GAL)	01/1961	N	VOC (OZONE PRECURSORS)	3.23E-02	5.0
120F	242-3F CTS PUMP PIT TANK EXHAUST #1 (2950 Gallons)	01/1960	N	TOTAL PARTICULATE MATTER (PM)	1.36E-05	5.0
120F	242-3F CTS PUMP PIT TANK EXHAUST #1 (2950 Gallons)	01/1960	N	PARTICULATE MATTER (10 MICRONS)	6.81E-06	5.0
120F	242-3F CTS PUMP PIT TANK EXHAUST #1 (2950 Gallons)	01/1960	N	PARTICULATE MATTER (2.5 MICRONS)	6.81E-06	5.0
120F	242-3F CTS PUMP PIT TANK EXHAUST #1 (2950 Gallons)	01/1960	N	TOTAL TAPS/HAPS	6.81E-06	0.5
120F	242-3F CTS PUMP PIT TANK EXHAUST #1 (2950 Gallons)	01/1960	N	VOC (OZONE PRECURSORS)	6.34E-04	5.0
125F	242-3F CTS PUMP PIT TANK EXHAUST #2 (2950 Gallons)	01/1991	N	TOTAL TAPS/HAPS	6.81E-06	0.5
125F	242-3F CTS PUMP PIT TANK EXHAUST #2 (2950 Gallons)	01/1991	N	VOC (OZONE PRECURSORS)	6.34E-04	5.0
124F	288-F ASH BASIN	01/1985	N	TOTAL PARTICULATE MATTER (PM)	2.00E-01	5.0
124F	288-F ASH BASIN	01/1985	N	PARTICULATE MATTER (10 MICRONS)	1.00E-01	5.0
124F	288-F ASH BASIN	01/1985	N	PARTICULATE MATTER (2.5 MICRONS)	1.50E-02	5.0
124F	288-F ASH BASIN	01/1985	N	TOTAL TAPS/HAPS	1.84E-04	0.5
	G-Area Insignificant Activities					
165G	620-G UNDERGROUND DIESEL TANK #2 (2,000 GAL)	02/1995	Y (B.3)	VOCs, Total HAPs	N/A	Meets regulatory requirement for tank <10,000 gallons

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191G	620-G UNDERGROUND GASOLINE TANK #1 (2,000 GAL)	02/1995	Y (B.3)	VOCs, Total HAPs	N/A	Meets regulatory requirement for tank <10,000 gallons
065G	623-29G EMERGENCY DIESEL GENERATOR (48 KW)	01/1989	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
078G	623-30G EMERGENCY DIESEL GENERATOR (80 KW)	01/1990	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
290G	623-40G EMERGENCY DIESEL GENERATOR (40 KW)	10/1998	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
169G	654-G EMERGENCY DIESEL GENERATOR (1,000 KW)	0080-0041-G-CI 08/1994	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
168G	654-G DIESEL FUEL TANK (1,000 GAL)	01/1994	Y (B.3)	VOCs, Total HAPs	N/A	Meets regulatory requirement for tank <10,000 gallons
064G	681-3G EMERGENCY DIESEL GENERATOR (100 KW)	01/1985	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
079G	701-3G EMERGENCY DIESEL GENERATOR (15 KW)	01/1985	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
084G	701-4G EMERGENCY DIESEL GENERATOR (15 KW)	01/1985	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
104G	701-8G EMERGENCY DIESEL GENERATOR (30 KW)	01/1985	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
099G	701-12G EMERGENCY DIESEL GENERATOR (30 KW)	01/1985	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
096G	701-13G EMERGENCY DIESEL GENERATOR (30 KW)	01/1985	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW

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327G	701-20G EMERGENCY DIESEL GENERATOR (84 KW)	03/2005	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
334G	701-21G EMERGENCY DIESEL GENERATOR (75 KW)	07/2006	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
137G	737-G EMERGENCY DIESEL GENERATOR (130 KW)	04/1993	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
241G	760-1G EMERGENCY DIESEL GENERATOR (95 KW)	01/1994	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
187G	620-G DIESEL FUEL DISPENSING STATION	02/1995	N	TOTAL TAPS/HAPS	2.27E-01	0.5
187G	620-G DIESEL FUEL DISPENSING STATION	02/1995	N	VOC (OZONE PRECURSORS)	2.41E-01	5.0
188G	620-G GASOLINE DISPENSING STATION	02/1995	N	TOTAL TAPS/HAPS	2.20E-01	0.5
188G	620-G GASOLINE DISPENSING STATION	02/1995	N	VOC (OZONE PRECURSORS)	2.41E-01	5.0
098Z	681-15G LOW POINT DRAIN TANK (7,500 GAL)	01/1997	N	TOTAL TAPS/HAPS	2.19E-04	0.5
098Z	681-15G LOW POINT DRAIN TANK (7,500 GAL)	01/1997	N	VOC (OZONE PRECURSORS)	2.19E-04	5.0
332G	683-2G CMP BAROBALLS	01/2005	N	TOTAL TAPS/HAPS	1.90E-01	0.5
332G	683-2G CMP BAROBALLS	01/2005	N	VOC (OZONE PRECURSORS)	5.30E-02	5.0
021G	715-1G GASOLINE DISPENSING STATION	01/1985	N	TOTAL TAPS/HAPS	2.53E-01	0.5
021G	715-1G GASOLINE DISPENSING STATION	01/1985	N	VOC (OZONE PRECURSORS)	2.76E-01	5.0
022G	715-1G UNDERGROUND GASOLINE TANK #1 (10,000 GAL)	01/1984	N	TOTAL TAPS/HAPS	2.11E-01	0.5

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022G	715-1G UNDERGROUND GASOLINE TANK #1 (10,000 GAL)	01/1984	N	VOC (OZONE PRECURSORS)	4.68E+00	5.0
138G	715-2G GASOLINE DISPENSING STATION	01/1989	N	TOTAL TAPS/HAPS	2.53E-01	0.5
138G	715-2G GASOLINE DISPENSING STATION	01/1989	N	VOC (OZONE PRECURSORS)	2.76E-01	5.0
139G	715-2G UNDERGROUND GASOLINE TANK #1 (10,000 GAL)	01/1989	N	TOTAL TAPS/HAPS	2.11E-01	0.5
139G	715-2G UNDERGROUND GASOLINE TANK #1 (10,000 GAL)	01/1989	N	VOC (OZONE PRECURSORS)	4.68E+00	5.0
258G	741-G SANITARY LANDFILL	05/1993	N	TOTAL HAPS	7.00E-03	0.5
258G	741-G SANITARY LANDFILL	05/1993	N	VOC (OZONE PRECURSORS)	7.00E-03	5.0
268G	740-G OLD SANITARY LANDFILL	05/1996	N	TOTAL HAPS	7.00E-03	0.5
268G	740-G OLD SANITARY LANDFILL	05/1996	N	VOC (OZONE PRECURSORS)	7.00E-03	5.0
305G	751-1G ETHANOL TANK (10,000 GAL)	10/1999	N	TOTAL TAPS/HAPS	2.55E-04	0.5
305G	751-1G ETHANOL TANK (10,000 GAL)	10/1999	N	VOC (OZONE PRECURSORS)	1.08E-01	5.0
273G	904-11G PASSIVE SOIL VAPOR EXT SYSTEM	09/1997	N	TOTAL TAPS/HAPS	1.03E-01	0.5
273G	904-11G PASSIVE SOIL VAPOR EXT SYSTEM	09/1997	N	VOC (OZONE PRECURSORS)	1.03E-01	5.0
245G	US FORESTRY SERVICE TREE MARKING	01/1995	N	VOC (OZONE PRECURSORS)	2.21E+00	5.0
292G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	TOTAL TAPS/HAPS	5.68E-02	0.5
292G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	VOC (OZONE PRECURSORS)	4.69E-02	5.0
293G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	TOTAL TAPS/HAPS	8.28E-02	0.5

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293G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	VOC (OZONE PRECURSORS)	7.29E-02	5.0
294G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	TOTAL TAPS/HAPS	8.28E-02	0.5
294G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	VOC (OZONE PRECURSORS)	7.29E-02	5.0
295G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	TOTAL TAPS/HAPS	8.28E-02	0.5
295G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	VOC (OZONE PRECURSORS)	7.29E-02	5.0
296G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	TOTAL TAPS/HAPS	5.68E-02	0.5
296G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	VOC (OZONE PRECURSORS)	4.69E-02	5.0
297G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	TOTAL TAPS/HAPS	4.86E-02	0.5
297G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	VOC (OZONE PRECURSORS)	4.69E-02	5.0
298G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	TOTAL TAPS/HAPS	4.86E-02	0.5
298G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	VOC (OZONE PRECURSORS)	4.69E-02	5.0
299G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	TOTAL TAPS/HAPS	4.86E-02	0.5
299G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	VOC (OZONE PRECURSORS)	4.69E-02	5.0
300G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	TOTAL TAPS/HAPS	1.28E-02	0.5
300G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	VOC (OZONE PRECURSORS)	1.19E-02	5.0
301G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	TOTAL TAPS/HAPS	2.18E-02	0.5
301G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	VOC (OZONE PRECURSORS)	2.09E-02	5.0
302G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	TOTAL TAPS/HAPS	1.28E-02	0.5

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302G	MISC. CHEM. BASIN AIR STRIPPING WELLS (01-11)	03/2002	N	VOC (OZONE PRECURSORS)	1.19E-02	5.0
269G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	06/1996	N	TOTAL TAPS/HAPS	2.17E-03	0.5
269G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	06/1996	N	VOC (OZONE PRECURSORS)	1.93E-03	5.0
270G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	06/1996	N	TOTAL TAPS/HAPS	3.62E-04	0.5
270G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	06/1996	N	VOC (OZONE PRECURSORS)	3.22E-04	5.0
274G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	06/1998	N	TOTAL TAPS/HAPS	1.45E-02	0.5
274G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	06/1998	N	VOC (OZONE PRECURSORS)	1.29E-02	5.0
275G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	09/1998	N	TOTAL TAPS/HAPS	1.45E-03	0.5
275G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	09/1998	N	VOC (OZONE PRECURSORS)	1.29E-03	5.0
276G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	09/1998	N	TOTAL TAPS/HAPS	1.45E-03	0.5
276G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	09/1998	N	VOC (OZONE PRECURSORS)	1.29E-03	5.0
277G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	09/1998	N	TOTAL TAPS/HAPS	7.23E-04	0.5
277G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	09/1998	N	VOC (OZONE PRECURSORS)	6.44E-04	5.0

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278G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	09/1998	N	TOTAL TAPS/HAPS	3.62E-04	0.5
278G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	09/1998	N	VOC (OZONE PRECURSORS)	3.22E-04	5.0
279G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	09/1998	N	TOTAL TAPS/HAPS	1.45E-03	0.5
279G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	09/1998	N	VOC (OZONE PRECURSORS)	1.29E-03	5.0
280G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	09/1998	N	TOTAL TAPS/HAPS	2.97E-02	0.5
280G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	09/1998	N	VOC (OZONE PRECURSORS)	2.64E-02	5.0
281G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	09/1998	N	TOTAL TAPS/HAPS	1.66E-01	0.5
281G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	09/1998	N	VOC (OZONE PRECURSORS)	1.47E-01	5.0
282G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	09/1998	N	TOTAL TAPS/HAPS	3.62E-03	0.5
282G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	09/1998	N	VOC (OZONE PRECURSORS)	3.22E-03	5.0
283G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	09/1998	N	TOTAL TAPS/HAPS	5.49E-02	0.5
283G	SOUTHERN SECTOR RECIRCULATION WELLS (01-12)	09/1998	N	VOC (OZONE PRECURSORS)	4.90E-02	5.0

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	H-Area Insignificant Activities					
56FH	200-H EMERGENCY DIESEL GENERATOR #1 (900 KW)	04/2001	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
911H	241-125H EMERGENCY DIESEL FIRE PUMP #1 (330 BHP)	0080-0042-CI 03/1991	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for emergency fire pump
912H	241-125H EMERGENCY DIESEL FIRE PUMP #2 (330 BHP)	0080-0042-CI 03/1991	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for emergency fire pump
915H	254-10H EMERGENCY DIESEL GENERATOR (750 KW)	0080-0046-CG 06/1986	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
562H	254-13H EMERGENCY DIESEL GENERATOR (30 KW)	03/1987	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
80AH	254-15H EMERGENCY DIESEL GENERATOR (300 KW)	03/1993	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
81AH	254-16H EMERGENCY DIESEL GENERATOR (300 KW)	03/1993	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
478H	254-1H EMERGENCY DIESEL GENERATOR (250 KW)	05/1980	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
57FH	254-21H EMERGENCY DIESEL GENERATOR (1,000 KW)	06/2001	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
58FH	254-21H DIESEL FUEL TANK (1,700 GAL)	10/2002	Y (B.3)	VOCs, Total HAPs	N/A	Meets regulatory requirement for tank <10,000 gallons
439H	254-3H EMERGENCY DIESEL GENERATOR (275 KW)	05/1980	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator

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513H	254-4H EMERGENCY DIESEL GENERATOR (150 KW)	0080-0046-CE 03/1986	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
462H	254-8H EMERGENCY DIESEL GENERATOR (500 KW)	0080-0046-CI 04/1987	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
420H	254-9H EMERGENCY DIESEL GENERATOR (400 KW)	0080-0046-CI 04/1987	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
461H	254-H EMERGENCY DIESEL GENERATOR (500 KW)	07/1987	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
181H	299-1H EMERGENCY DIESEL GENERATOR (200 KW)	05/1980	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
60FH	719-H EMERGENCY DIESEL GENERATOR (50 KW)	01/1998	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
940H	720-H EMERGENCY DIESEL GENERATOR (455 KW)	0080-0046-CJ 12/1987	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
723H	905-87H EMERGENCY FIRE WATER PUMP (192 BHP)	01/1979	Y (B.4)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for internal combustion engine < 200 BHP
618H	H CANYON EMERGENCY DIESEL GENERATOR (1,000 KW)	0080-0046-CC 07/1985	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
743H	HAOM - EMERGENCY DIESEL GENERATOR (200 KW)	05/1980	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
505H	HAOM - EMERGENCY DIESEL GENERATOR (300 KW)	05/1980	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
546H	HB LINE EMERGENCY DIESEL GENERATOR (300 KW)	0080-0046-CA 11/1983	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator

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602H	211-H CSF NAOH TANK 41 (17,700 GAL)	01/1953	N	TOTAL PARTICULATE MATTER (PM)	2.68E-21	5.0
602H	211-H CSF NAOH TANK 41 (17,700 GAL)	01/1953	N	PARTICULATE MATTER (10 MICRONS)	2.68E-21	5.0
602H	211-H CSF NAOH TANK 41 (17,700 GAL)	01/1953	N	PARTICULATE MATTER (2.5 MICRONS)	2.68E-21	5.0
613H	211-H CSF NAOH TANK 43 (17,700 GAL)	01/1953	N	TOTAL PARTICULATE MATTER (PM)	2.68E-21	5.0
613H	211-H CSF NAOH TANK 43 (17,700 GAL)	01/1953	N	PARTICULATE MATTER (10 MICRONS)	2.68E-21	5.0
613H	211-H CSF NAOH TANK 43 (17,700 GAL)	01/1953	N	PARTICULATE MATTER (2.5 MICRONS)	2.68E-21	5.0
536H	211-H TRIBUTYLPHOSPHATE TANK (17,700 GAL)	01/1953	N	VOC (OZONE PRECURSORS)	5.77E-04	5.0
544H	222-H BORIC ACID (DRY MATERIAL HANDLING)	01/1985	N	TOTAL PARTICULATE MATTER (PM)	3.49E-03	5.0
544H	222-H BORIC ACID (DRY MATERIAL HANDLING)	01/1985	N	PARTICULATE MATTER (10 MICRONS)	1.22E-03	5.0
544H	222-H BORIC ACID (DRY MATERIAL HANDLING)	01/1985	N	PARTICULATE MATTER (2.5 MICRONS)	1.22E-03	5.0
21BH	222-H MANGANOUS NITRATE (DRY MATERIAL HANDLING)	01/1985	N	TOTAL PARTICULATE MATTER (PM)	4.52E-01	5.0
21BH	222-H MANGANOUS NITRATE (DRY MATERIAL HANDLING)	01/1985	N	PARTICULATE MATTER (10 MICRONS)	1.58E-01	5.0
21BH	222-H MANGANOUS NITRATE (DRY MATERIAL HANDLING)	01/1985	N	PARTICULATE MATTER (2.5 MICRONS)	1.58E-01	5.0
543H	222-H MERCURY BULK STORAGE	01/1985	N	TOTAL PARTICULATE MATTER (PM)	1.96E-08	5.0
543H	222-H MERCURY BULK STORAGE	01/1985	N	PARTICULATE MATTER (10 MICRONS)	1.96E-08	5.0
543H	222-H MERCURY BULK STORAGE	01/1985	N	PARTICULATE MATTER (2.5 MICRONS)	1.96E-08	5.0
543H	222-H MERCURY BULK STORAGE	01/1985	N	TOTAL TAPS/HAPS	1.96E-08	0.5

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542H	222-H POTASSIUM PERMANGANATE (DRY MATERIAL HANDLING)	01/1985	N	TOTAL PARTICULATE MATTER (PM)	3.68E-02	5.0
542H	222-H POTASSIUM PERMANGANATE (DRY MATERIAL HANDLING)	01/1985	N	PARTICULATE MATTER (10 MICRONS)	1.29E-02	5.0
542H	222-H POTASSIUM PERMANGANATE (DRY MATERIAL HANDLING)	01/1985	N	PARTICULATE MATTER (2.5 MICRONS)	1.29E-02	5.0
545H	222-H SODIUM CARBONATE (DRY MATERIAL HANDLING)	01/1985	N	TOTAL PARTICULATE MATTER (PM)	8.08E-02	5.0
545H	222-H SODIUM CARBONATE (DRY MATERIAL HANDLING)	01/1985	N	PARTICULATE MATTER (10 MICRONS)	2.83E-02	5.0
545H	222-H SODIUM CARBONATE (DRY MATERIAL HANDLING)	01/1985	N	PARTICULATE MATTER (2.5 MICRONS)	2.83E-02	5.0
541H	222-H SODIUM NITRITE (DRY MATERIAL HANDLING)	01/1991	N	TOTAL PARTICULATE MATTER (PM)	2.35E-01	5.0
541H	222-H SODIUM NITRITE (DRY MATERIAL HANDLING)	01/1991	N	PARTICULATE MATTER (10 MICRONS)	8.22E-02	5.0
541H	222-H SODIUM NITRITE (DRY MATERIAL HANDLING)	01/1991	N	PARTICULATE MATTER (2.5 MICRONS)	8.22E-02	5.0
11GH	234-7H CUTTING HOOD	04/2004	N	TOTAL PARTICULATE MATTER (PM)	7.51E-01	5.0
11GH	234-7H CUTTING HOOD	04/2004	N	PARTICULATE MATTER (10 MICRONS)	7.51E-01	5.0
11GH	234-7H CUTTING HOOD	04/2004	N	PARTICULATE MATTER (2.5 MICRONS)	7.51E-01	5.0
11GH	234-7H CUTTING HOOD	04/2004	N	TOTAL TAPS/HAPS	2.55E-01	0.5
10GH	234-7H METALLOGRAPHY HOOD	04/2004	N	OXIDES OF NITROGEN (NOX)	9.41E-03	5.0
10GH	234-7H METALLOGRAPHY HOOD	04/2004	N	TOTAL PARTICULATE MATTER (PM)	4.88E-01	5.0
10GH	234-7H METALLOGRAPHY HOOD	04/2004	N	PARTICULATE MATTER (10 MICRONS)	4.88E-01	5.0
10GH	234-7H METALLOGRAPHY HOOD	04/2004	N	PARTICULATE MATTER (2.5 MICRONS)	4.88E-01	5.0

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10GH	234-7H METALLOGRAPHY HOOD	04/2004	N	TOTAL TAPS/HAPS	3.32E-01	0.5
10GH	234-7H METALLOGRAPHY HOOD	04/2004	N	VOC (OZONE PRECURSORS)	3.67E-02	5.0
902H	238-H RECLAIMATION FACILITY - LATHE	01/1968	N	TOTAL PARTICULATE MATTER (PM)	2.35E-01	5.0
902H	238-H RECLAIMATION FACILITY - LATHE	01/1968	N	PARTICULATE MATTER (10 MICRONS)	1.17E-01	5.0
902H	238-H RECLAIMATION FACILITY - LATHE	01/1968	N	PARTICULATE MATTER (2.5 MICRONS)	1.17E-01	5.0
902H	238-H RECLAIMATION FACILITY - LATHE	01/1968	N	TOTAL TAPS/HAPS	4.00E-02	0.5
906H	238-H RECLAIMATION FACILITY - MILLING	01/1968	N	TOTAL PARTICULATE MATTER (PM)	2.35E-01	5.0
906H	238-H RECLAIMATION FACILITY - MILLING	01/1968	N	PARTICULATE MATTER (10 MICRONS)	1.17E-01	5.0
906H	238-H RECLAIMATION FACILITY - MILLING	01/1968	N	PARTICULATE MATTER (2.5 MICRONS)	1.17E-01	5.0
906H	238-H RECLAIMATION FACILITY - MILLING	01/1968	N	TOTAL TAPS/HAPS	4.00E-02	0.5
32FH	241-100H NEW WASTE TRANSFER FACILITY	11/1985	N	TOTAL TAPS/HAPS	6.43E-04	0.5
32FH	241-100H NEW WASTE TRANSFER FACILITY	11/1985	N	VOC (OZONE PRECURSORS)	7.62E-01	5.0
99BH	241-100H NEW WASTE TRANSFER TANK (5,800 GAL)	11/1995	N	TOTAL TAPS/HAPS	4.20E-06	0.5
99BH	241-100H NEW WASTE TRANSFER TANK (5,800 GAL)	11/1995	N	VOC (OZONE PRECURSORS)	4.98E-03	5.0
42GH	241-32H MCU NITRIC STRIP FEED TANK (4,900 GAL)	01/2006	N	TOTAL TAPS/HAPS	2.07E-05	0.5
488H	241-54H CAUSTIC DAY TANK (3,900 GAL)	11/1988	N	TOTAL PARTICULATE MATTER (PM)	1.98E-21	5.0
488H	241-54H CAUSTIC DAY TANK (3,900 GAL)	11/1988	N	PARTICULATE MATTER (10 MICRONS)	1.98E-21	5.0
488H	241-54H CAUSTIC DAY TANK (3,900 GAL)	11/1988	N	PARTICULATE MATTER (2.5 MICRONS)	1.98E-21	5.0

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490H	241-54H NITRIC ACID DAY TANK (12,600 GAL)	11/1998	N	TOTAL TAPS/HAPS	2.81E-01	0.5
489H	241-54H SODIUM NITRATE MIX TANK (4,000 GAL)	11/1988	N	TOTAL PARTICULATE MATTER (PM)	2.95E-07	5.0
489H	241-54H SODIUM NITRATE MIX TANK (4,000 GAL)	11/1988	N	PARTICULATE MATTER (10 MICRONS)	2.95E-07	5.0
489H	241-54H SODIUM NITRATE MIX TANK (4,000 GAL)	11/1988	N	PARTICULATE MATTER (2.5 MICRONS)	2.95E-07	5.0
491H	241-60H TANK TRUCK UNLOADING STATION	10/1988	N	TOTAL PARTICULATE MATTER (PM)	4.80E-01	5.0
491H	241-60H TANK TRUCK UNLOADING STATION	10/1988	N	PARTICULATE MATTER (10 MICRONS)	1.60E-01	5.0
491H	241-60H TANK TRUCK UNLOADING STATION	10/1988	N	PARTICULATE MATTER (2.5 MICRONS)	1.60E-01	5.0
491H	241-60H TANK TRUCK UNLOADING STATION	10/1988	N	TOTAL TAPS/HAPS	1.60E-01	0.5
493H	241-61H CAUSTIC TANK (9,400 GAL)	10/1988	N	TOTAL PARTICULATE MATTER (PM)	4.65E-21	5.0
493H	241-61H CAUSTIC TANK (9,400 GAL)	10/1988	N	PARTICULATE MATTER (10 MICRONS)	4.65E-21	5.0
493H	241-61H CAUSTIC TANK (9,400 GAL)	10/1988	N	PARTICULATE MATTER (2.5 MICRONS)	4.65E-21	5.0
455H	241-61H NITRIC ACID TANK (9,400 GAL)	11/1998	N	TOTAL TAPS/HAPS	4.90E-02	0.5
548H	241-70H PUMP TANK & PITS 5 & 6 (5800 GAL)	01/1980	N	TOTAL TAPS/HAPS	1.88E-05	0.5
548H	241-70H PUMP TANK & PITS 5 & 6 (5800 GAL)	01/1980	N	VOC (OZONE PRECURSORS)	2.23E-02	5.0
337H	241-H WASTE TANK 09 (750,000 GAL)	01/1953	N	TOTAL TAPS/HAPS	1.65E-05	0.5
337H	241-H WASTE TANK 09 (750,000 GAL)	01/1953	N	VOC (OZONE PRECURSORS)	1.96E-02	5.0
338H	241-H WASTE TANK 10 (750,000 GAL)	01/1953	N	TOTAL TAPS/HAPS	1.66E-05	0.5
338H	241-H WASTE TANK 10 (750,000 GAL)	01/1953	N	VOC (OZONE PRECURSORS)	1.96E-02	5.0

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368H	241-H WASTE TANK 11 (750,000 GAL)	01/1954	N	TOTAL TAPS/HAPS	1.15E-05	0.5
368H	241-H WASTE TANK 11 (750,000 GAL)	01/1954	N	VOC (OZONE PRECURSORS)	1.37E-02	5.0
409H	241-H WASTE TANK 12 (750,000 GAL)	01/1954	N	TOTAL TAPS/HAPS	1.55E-05	0.5
409H	241-H WASTE TANK 12 (750,000 GAL)	01/1954	N	VOC (OZONE PRECURSORS)	1.83E-02	5.0
364H	241-H WASTE TANK 13 (1,030,000 GAL)	01/1957	N	TOTAL TAPS/HAPS	9.74E-06	0.5
364H	241-H WASTE TANK 13 (1,030,000 GAL)	01/1957	N	VOC (OZONE PRECURSORS)	1.15E-02	5.0
410H	241-H WASTE TANK 14 (1,030,000 GAL)	01/1957	N	TOTAL TAPS/HAPS	1.40E-05	0.5
410H	241-H WASTE TANK 14 (1,030,000 GAL)	01/1957	N	VOC (OZONE PRECURSORS)	1.66E-02	5.0
422H	241-H WASTE TANK 15 (1,030,000 GAL)	01/1957	N	TOTAL TAPS/HAPS	1.81E-05	0.5
422H	241-H WASTE TANK 15 (1,030,000 GAL)	01/1957	N	VOC (OZONE PRECURSORS)	2.14E-02	5.0
370H	241-H WASTE TANK 21 (1,300,000 GAL)	01/1960	N	TOTAL TAPS/HAPS	3.46E-05	0.5
370H	241-H WASTE TANK 21 (1,300,000 GAL)	01/1960	N	VOC (OZONE PRECURSORS)	4.10E-02	5.0
365H	241-H WASTE TANK 22 (1,300,000 GAL)	01/1965	N	TOTAL TAPS/HAPS	3.46E-05	0.5
365H	241-H WASTE TANK 22 (1,300,000 GAL)	01/1965	N	VOC (OZONE PRECURSORS)	4.10E-02	5.0
371H	241-H WASTE TANK 23 (1,300,000 GAL)	01/1963	N	TOTAL TAPS/HAPS	1.85E-05	0.5
371H	241-H WASTE TANK 23 (1,300,000 GAL)	01/1963	N	VOC (OZONE PRECURSORS)	2.19E-02	5.0
391H	241-H WASTE TANK 24 (1,300,000 GAL)	01/1963	N	TOTAL TAPS/HAPS	1.04E-05	0.5
391H	241-H WASTE TANK 24 (1,300,000 GAL)	01/1963	N	VOC (OZONE PRECURSORS)	1.24E-02	5.0

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393H	241-H WASTE TANK 29 (1,300,000 GAL)	01/1971	N	TOTAL TAPS/HAPS	1.39E-05	0.5
393H	241-H WASTE TANK 29 (1,300,000 GAL)	01/1971	N	VOC (OZONE PRECURSORS)	1.64E-02	5.0
399H	241-H WASTE TANK 30 (1,300,000 GAL)	01/1971	N	TOTAL TAPS/HAPS	9.50E-06	0.5
399H	241-H WASTE TANK 30 (1,300,000 GAL)	01/1971	N	VOC (OZONE PRECURSORS)	1.13E-02	5.0
401H	241-H WASTE TANK 31 (1,300,000 GAL)	01/1971	N	TOTAL TAPS/HAPS	1.02E-05	0.5
401H	241-H WASTE TANK 31 (1,300,000 GAL)	01/1971	N	VOC (OZONE PRECURSORS)	1.21E-02	5.0
404H	241-H WASTE TANK 32 (1,300,000 GAL)	01/1971	N	TOTAL TAPS/HAPS	9.35E-06	0.5
404H	241-H WASTE TANK 32 (1,300,000 GAL)	01/1971	N	VOC (OZONE PRECURSORS)	1.11E-02	5.0
405H	241-H WASTE TANK 35 (1,300,000 GAL)	01/1977	N	TOTAL TAPS/HAPS	1.68E-05	0.5
405H	241-H WASTE TANK 35 (1,300,000 GAL)	01/1977	N	VOC (OZONE PRECURSORS)	1.99E-02	5.0
406H	241-H WASTE TANK 36 (1,300,000 GAL)	01/1978	N	TOTAL TAPS/HAPS	1.64E-05	0.5
406H	241-H WASTE TANK 36 (1,300,000 GAL)	01/1978	N	VOC (OZONE PRECURSORS)	1.95E-02	5.0
407H	241-H WASTE TANK 37 (1,300,000 GAL)	01/1978	N	TOTAL TAPS/HAPS	1.73E-05	0.5
407H	241-H WASTE TANK 37 (1,300,000 GAL)	01/1978	N	VOC (OZONE PRECURSORS)	2.04E-02	5.0
336H	241-H WASTE TANK 38 (1,300,000 GAL)	01/1980	N	TOTAL TAPS/HAPS	1.23E-05	0.5
336H	241-H WASTE TANK 38 (1,300,000 GAL)	01/1980	N	VOC (OZONE PRECURSORS)	1.45E-02	5.0
340H	241-H WASTE TANK 39 (1,300,000 GAL)	01/1980	N	TOTAL TAPS/HAPS	1.23E-05	0.5
340H	241-H WASTE TANK 39 (1,300,000 GAL)	01/1980	N	VOC (OZONE PRECURSORS)	1.45E-02	5.0

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347H	241-H WASTE TANK 40 (1,300,000 GAL)	01/1982	N	TOTAL TAPS/HAPS	1.49E-05	0.5
347H	241-H WASTE TANK 40 (1,300,000 GAL)	01/1982	N	VOC (OZONE PRECURSORS)	1.52E-01	5.0
354H	241-H WASTE TANK 41 (1,300,000 GAL)	01/1980	N	TOTAL TAPS/HAPS	1.41E-05	0.5
354H	241-H WASTE TANK 41 (1,300,000 GAL)	01/1980	N	VOC (OZONE PRECURSORS)	1.68E-02	5.0
356H	241-H WASTE TANK 42 (1,300,000 GAL)	01/1982	N	TOTAL TAPS/HAPS	1.96E-05	0.5
356H	241-H WASTE TANK 42 (1,300,000 GAL)	01/1982	N	VOC (OZONE PRECURSORS)	2.44E-02	5.0
357H	241-H WASTE TANK 43 (1,300,000 GAL)	01/1980	N	TOTAL TAPS/HAPS	1.36E-05	0.5
357H	241-H WASTE TANK 43 (1,300,000 GAL)	01/1980	N	VOC (OZONE PRECURSORS)	1.61E-02	5.0
66FH	241-H WASTE TANK 48 (1,300,000 GAL)	01/1983	N	TOTAL TAPS/HAPS	4.45E-07	0.5
66FH	241-H WASTE TANK 48 (1,300,000 GAL)	01/1983	N	VOC (OZONE PRECURSORS)	5.27E-02	5.0
65FH	241-H WASTE TANK 49 (1,300,000 GAL)	01/1983	N	TOTAL TAPS/HAPS	4.45E-05	0.5
65FH	241-H WASTE TANK 49 (1,300,000 GAL)	01/1983	N	VOC (OZONE PRECURSORS)	5.27E-02	5.0
361H	241-H WASTE TANK 50 (1,300,000 GAL)	01/1983	N	TOTAL PARTICULATE MATTER (PM)	1.60E-05	5.0
361H	241-H WASTE TANK 50 (1,300,000 GAL)	01/1983	N	PARTICULATE MATTER (10 MICRONS)	8.02E-06	5.0
361H	241-H WASTE TANK 50 (1,300,000 GAL)	01/1983	N	PARTICULATE MATTER (2.5 MICRONS)	8.02E-06	5.0
361H	241-H WASTE TANK 50 (1,300,000 GAL)	01/1983	N	TOTAL TAPS/HAPS	1.80E-01	0.5
361H	241-H WASTE TANK 50 (1,300,000 GAL)	01/1983	N	VOC (OZONE PRECURSORS)	4.69E-01	5.0
362H	241-H WASTE TANK 51 (1,300,000 GAL)	01/1983	N	TOTAL PARTICULATE MATTER (PM)	8.02E-06	5.0

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362H	241-H WASTE TANK 51 (1,300,000 GAL)	01/1983	N	PARTICULATE MATTER (10 MICRONS)	8.02E-06	5.0
362H	241-H WASTE TANK 51 (1,300,000 GAL)	01/1983	N	PARTICULATE MATTER (2.5 MICRONS)	8.02E-06	5.0
362H	241-H WASTE TANK 51 (1,300,000 GAL)	01/1983	N	TOTAL TAPS/HAPS	1.59E-05	0.5
362H	241-H WASTE TANK 51 (1,300,000 GAL)	01/1983	N	VOC (OZONE PRECURSORS)	4.69E-01	5.0
563H	241-6H ETF CHEMICAL MIX TANK (375 GAL)	10/1998	N	TOTAL PARTICULATE MATTER (PM)	8.29E-08	5.0
563H	241-6H ETF CHEMICAL MIX TANK (375 GAL)	10/1998	N	PARTICULATE MATTER (10 MICRONS)	8.29E-08	5.0
563H	241-6H ETF CHEMICAL MIX TANK (375 GAL)	10/1998	N	PARTICULATE MATTER (2.5 MICRONS)	8.29E-08	5.0
563H	241-6H ETF CHEMICAL MIX TANK (375 GAL)	10/1998	N	TOTAL TAPS/HAPS	1.07E-02	0.5
583H	241-6H ETF FILTER CLEANING TANK (2,438 GAL)	10/1998	N	TOTAL PARTICULATE MATTER (PM)	2.43E-04	5.0
583H	241-6H ETF FILTER CLEANING TANK (2,438 GAL)	10/1998	N	PARTICULATE MATTER (10 MICRONS)	8.09E-05	5.0
583H	241-6H ETF FILTER CLEANING TANK (2,438 GAL)	10/1998	N	PARTICULATE MATTER (2.5 MICRONS)	8.09E-05	5.0
414H	241-32H MCU COLD CHEMICAL UNLOADING STATION	07/1993	N	TOTAL PARTICULATE MATTER (PM)	4.70E-01	5.0
414H	241-32H MCU COLD CHEMICAL UNLOADING STATION	07/1993	N	PARTICULATE MATTER (10 MICRONS)	4.70E-01	5.0
414H	241-32H MCU COLD CHEMICAL UNLOADING STATION	07/1993	N	PARTICULATE MATTER (2.5 MICRONS)	4.70E-01	5.0
417H	241-32H MCU NAOH TANK (9,250 GAL)	01/1985	N	TOTAL PARTICULATE MATTER (PM)	7.71E-06	5.0
417H	241-32H MCU NAOH TANK (9,250 GAL)	01/1985	N	PARTICULATE MATTER (10 MICRONS)	7.71E-06	5.0
417H	241-32H MCU NAOH TANK (9,250 GAL)	01/1985	N	PARTICULATE MATTER (2.5 MICRONS)	7.71E-06	5.0

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418H	241-32H MCU NITRIC SCRUB FEED TANK (7,200 GAL)	08/1985	N	TOTAL TAPS/HAPS	8.22E-05	0.5
415H	241-32H MCU OXALIC ACID TANK (5,700 GAL)	06/1985	N	TOTAL PARTICULATE MATTER (PM)	4.30E-07	5.0
415H	241-32H MCU OXALIC ACID TANK (5,700 GAL)	06/1985	N	PARTICULATE MATTER (10 MICRONS)	4.30E-07	5.0
415H	241-32H MCU OXALIC ACID TANK (5,700 GAL)	06/1985	N	PARTICULATE MATTER (2.5 MICRONS)	4.30E-07	5.0
34GH	241-278H MCU STRIP EFFLUENT HOLD TANK (1,000 GAL)	02/2007	N	TOTAL PARTICULATE MATTER (PM)	1.10E-11	5.0
34GH	241-278H MCU STRIP EFFLUENT HOLD TANK (1,000 GAL)	02/2007	N	PARTICULATE MATTER (10 MICRONS)	1.10E-11	5.0
34GH	241-278H MCU STRIP EFFLUENT HOLD TANK (1,000 GAL)	02/2007	N	PARTICULATE MATTER (2.5 MICRONS)	1.10E-11	5.0
528H	242-16H 2H OVERHEAD RECEIVER TANK #1 (890 GAL)	01/1982	N	TOTAL TAPS/HAPS	6.40E-08	0.5
528H	242-16H 2H OVERHEAD RECEIVER TANK #1 (890 GAL)	01/1982	N	VOC (OZONE PRECURSORS)	7.58E-05	5.0
79DH	242-16H 2H OVERHEAD RECEIVER TANK #2 (890 GAL)	01/1982	N	TOTAL TAPS/HAPS	4.97E-08	0.5
79DH	242-16H 2H OVERHEAD RECEIVER TANK #2 (890 GAL)	01/1982	N	VOC (OZONE PRECURSORS)	5.89E-05	5.0
77BH	242-16H EVAPORATOR-2H ANTI-FOAM TANK (20 GAL)	01/1982	N	TOTAL TAPS/HAPS	4.87E-05	0.5
77BH	242-16H EVAPORATOR-2H ANTI-FOAM TANK (20 GAL)	01/1982	N	VOC (OZONE PRECURSORS)	1.28E-04	5.0
52DH	242-16H EVAPORATOR-2H PROCESS TANK (1,800 GAL)	01/1980	N	TOTAL TAPS/HAPS	1.10E-05	0.5
52DH	242-16H EVAPORATOR-2H PROCESS TANK (1,800 GAL)	01/1980	N	VOC (OZONE PRECURSORS)	1.30E-02	5.0
31BH	242-25H RHLW EVAP. CHEM. ADDITION TANK (150 GAL)	05/2000	N	TOTAL TAPS/HAPS	1.08E-03	0.5
54DH	242-25H RHLW EVAPORATOR ENCLOSURE BUILDING	05/2000	N	TOTAL TAPS/HAPS	3.97E-07	0.5

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54DH	242-25H RHLW EVAPORATOR ENCLOSURE BUILDING	05/2000	N	VOC (OZONE PRECURSORS)	4.70E-04	5.0
34BH	242-25H RHLWE ENCLOSURE BUILDING	05/2000	N	TOTAL TAPS/HAPS	1.49E-04	0.5
34BH	242-25H RHLWE ENCLOSURE BUILDING	05/2000	N	VOC (OZONE PRECURSORS)	1.76E-01	5.0
50FH	242-25H RHLWE MERCURY REMOVAL TANK (562 GAL)	05/2000	N	TOTAL TAPS/HAPS	4.87E-07	0.5
50FH	242-25H RHLWE MERCURY REMOVAL TANK (562 GAL)	05/2000	N	VOC (OZONE PRECURSORS)	1.33E-06	5.0
59FH	248-H PARTS CLEANING	11/2000	N	VOC (OZONE PRECURSORS)	9.54E-01	5.0
88EH	254-5H DIESEL FUEL TANK #1 (20,000 GAL)	10/1997	N	TOTAL TAPS/HAPS	7.16E-04	0.5
88EH	254-5H DIESEL FUEL TANK #1 (20,000 GAL)	10/1997	N	VOC (OZONE PRECURSORS)	1.52E-03	5.0
86EH	254-5H DIESEL FUEL TANK #2 (20,000 GAL)	10/1997	N	TOTAL TAPS/HAPS	7.16E-04	0.5
86EH	254-5H DIESEL FUEL TANK #2 (20,000 GAL)	10/1997	N	VOC (OZONE PRECURSORS)	1.52E-03	5.0
45BH	261-H CAUSTIC TANK (5,500 GAL)	07/1995	N	TOTAL PARTICULATE MATTER (PM)	4.61E-08	5.0
45BH	261-H CAUSTIC TANK (5,500 GAL)	07/1995	N	PARTICULATE MATTER (10 MICRONS)	4.61E-08	5.0
45BH	261-H CAUSTIC TANK (5,500 GAL)	07/1995	N	PARTICULATE MATTER (2.5 MICRONS)	4.61E-08	5.0
213H	284-11H COAL STORAGE PILE	01/1952	N	TOTAL PARTICULATE MATTER (PM)	2.32E+00	5.0
213H	284-11H COAL STORAGE PILE	01/1952	N	PARTICULATE MATTER (10 MICRONS)	1.16E+00	5.0
213H	284-11H COAL STORAGE PILE	01/1952	N	PARTICULATE MATTER (2.5 MICRONS)	1.16E+00	5.0
213H	284-11H COAL STORAGE PILE	01/1952	N	TOTAL TAPS/HAPS	2.50E-04	0.5
72DH	607-33H SOLVENT TANK H33 (30,000 GAL)	08/1995	N	VOC (OZONE PRECURSORS)	5.79E-05	5.0
73DH	607-33H SOLVENT TANK H34 (30,000 GAL)	08/1995	N	VOC (OZONE PRECURSORS)	5.79E-05	5.0

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74DH	607-33H SOLVENT TANK H35 (30,000 GAL)	08/1995	N	VOC (OZONE PRECURSORS)	5.79E-05	5.0
75DH	607-33H SOLVENT TANK H36 (30,000 GAL)	08/1995	N	VOC (OZONE PRECURSORS)	5.79E-05	5.0
538H	211-H N-PARAFFIN TANK 21 (17,700 GAL)	01/1953	N	VOC (OZONE PRECURSORS)	1.18E-02	5.0
547H	211-H N-PARAFFIN TANK 22 (17,700 GAL)	01/1953	N	VOC (OZONE PRECURSORS)	1.18E-02	5.0
52BH	HANM LOADING FACILTY	10/1993	N	VOC (OZONE PRECURSORS)	2.73E+00	5.0
874H	HAOM - RESERVOIR LOADING	01/1956	N	VOC (OZONE PRECURSORS)	2.73E+00	5.0
14DH	HB LINE SCRAP RECOVERY	01/1985	N	OXIDES OF NITROGEN (NOX)	8.10E-01	5.0
14DH	HB LINE SCRAP RECOVERY	01/1985	N	TOTAL HAPS	2.35E-05	0.5
15DH	HB LINE NEPTUNIUM OXIDE PROCESS	01/1985	N	OXIDES OF NITROGEN (NOX)	2.38E-01	5.0
15DH	HB LINE NEPTUNIUM OXIDE PROCESS	01/1985	N	TOTAL HAPS	6.62E-04	0.5
16DH	HB LINE PLUTONIUM OXIDE PROCESS	01/1985	N	OXIDES OF NITROGEN (NOX)	2.36E-01	5.0
16DH	HB LINE PLUTONIUM OXIDE PROCESS	01/1985	N	TOTAL HAPS	6.62E-04	0.5
40DH	HB LINE SCRAP RECOVERY CFP (132 GAL)	01/1983	N	TOTAL PARTICULATE MATTER (PM)	7.21E-04	0.5
41DH	HB LINE NP/PU OXIDE CFP (528 GAL)	01/1985	N	TOTAL TAPS/HAPS	8.08E-03	0.5
	K-Area Insignificant Activities					
089K	152-7K EMERGENCY DIESEL GENERATOR (200 KW)	0080-0047-CA 06/1986	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator

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093K	183-3K EMERGENCY DIESEL GENERATOR (365 KW)	0080-0047-CA 06/1986	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
163K	715-K UNDERGROUND GASOLINE TANK (5,000 GAL)	08/1989	Y (B.3)	VOCs, Total HAPs	N/A	Meets regulatory requirement for tank <10,000 gallons
201K	192-2K EMERGENCY DIESEL FIRE PUMP (375 BHP)	0080-0041 07/1992	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for emergency fire pump
291K	K-AREA COMPLEX EMERGENCY DIESEL GENERATOR (20 KW)	04/2006	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
239K	184-2K DIESEL FUEL TANK #1 (30,000 GAL)	07/1993	N	TOTAL TAPS/HAPS	1.30E-02	0.5
239K	184-2K DIESEL FUEL TANK #1 (30,000 GAL)	07/1993	N	VOC (OZONE PRECURSORS)	2.75E-02	5.0
238K	184-2K DIESEL FUEL TANK #2 (30,000 GAL)	07/1993	N	TOTAL TAPS/HAPS	1.30E-02	0.5
238K	184-2K DIESEL FUEL TANK #2 (30,000 GAL)	07/1993	N	VOC (OZONE PRECURSORS)	2.75E-02	5.0
237K	184-2K FUEL LOADING AREA	07/1993	N	TOTAL TAPS/HAPS	1.76E-02	0.5
237K	184-2K FUEL LOADING AREA	07/1993	N	VOC (OZONE PRECURSORS)	2.00E-02	5.0
236K	184-12K FUEL LOADING AREA	07/1993	N	TOTAL TAPS/HAPS	4.53E-02	0.5
236K	184-12K FUEL LOADING AREA	07/1993	N	VOC (OZONE PRECURSORS)	4.82E-02	5.0
128K	715-K GASOLINE DISPENSING STATION	10/1998	N	TOTAL TAPS/HAPS	2.20E-01	0.5
128K	715-K GASOLINE DISPENSING STATION	10/1998	N	VOC (OZONE PRECURSORS)	2.41E-01	5.0
	L-Area Insignificant Activities					

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010L	152-7L EMERGENCY DIESEL GENERATOR (200 KW)	0080-0049-CA 6/1986	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
125L	715-L UNDERGROUND GASOLINE TANK (5,000 GAL)	05/1989	Y (B.3)	VOCs, Total HAPs	N/A	Meets regulatory requirement for tank <10,000 gallons
138L	715-L GASOLINE DISPENSING STATION	1/1985	N	TOTAL TAPS/HAPS	2.20E-01	0.5
138L	715-L GASOLINE DISPENSING STATION	1/1985	N	VOC (OZONE PRECURSORS)	2.41E-01	5.0
	M-Area Insignificant Activities					
522M	782-1M EMERGNCY DIESEL FIRE PUMP (117 BHP)	01/1991	Y (B.4)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for internal combustion engine < 200 BHP
606M	782-5M PASSIVE SOIL VAPOR EXTRACTION WELLS	10/2001	N	TOTAL TAPS/HAPS	1.94E+00	0.5
606M	782-5M PASSIVE SOIL VAPOR EXTRACTION WELLS	10/2001	N	VOC (OZONE PRECURSORS)	5.52E-01	5.0
615M	M-AREA MICROBLOWERS	06/2008	N	TOTAL TAPS/HAPS	4.65E-01	0.5
615M	M-AREA MICROBLOWERS	06/2008	N	VOC (OZONE PRECURSORS)	1.91E-01	5.0
616M	321-M BAROBALL PROCESS SEWER REMEDIAT	01/2010	N	TOTAL HAPS	3.59E-01	0.5
616M	321-M BAROBALL PROCESS SEWER REMEDIAT	01/2010	N	VOC (OZONE PRECURSORS)	1.59E-01	5.0
617M	313-M BAROBALL PROCESS SEWER REMEDIAT	01/2010	N	TOTAL HAPS	5.77E-02	0.5
617M	313-M BAROBALL PROCESS SEWER REMEDIAT	01/2010	N	VOC (OZONE PRECURSORS)	5.47E-02	5.0

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	N-Area Insignificant Activities					
001G	681-17N EMERGENCY DIESEL PUMP (370 BHP)	01/1991	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency equipment
83DN	704-N EMERGENCY DIESEL GENERATOR (30 KW)	11/2001	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
014N	711-N HEATER #1 (250,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
016N	711-N HEATER #2 (250,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
SH03	711-N HEATER #3 (250,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
SH04	711-N HEATER #4 (225,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
SH05	711-N HEATER #5 (230,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
SH06	711-N HEATER #6 (230,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
SH07	711-N HEATER #7 (230,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
023N	711-N HEATER #8 (225,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr

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019N	711-N HEATER #9 (280,000 BTU/HR)	01/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
002N	711-N HEATER #10 (315,000 BTU/HR)	01/1988	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
013N	711-N HEATER #11 (285,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
227N	711-N HEATER #12 (315,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
SH13	711-N HEATER #13 (285,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
SH14	711-N HEATER #14 (315,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
003N	711-N BOILERS/SPACE HEATERS, 3.5E+5 BTU/HR	01/2002	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
047N	711-2N HEATER #62 (280,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
046N	711-2N HEATER #63 (225,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
039N	711-2N HEATER #64 (250,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
064N	711-2N HEATER #65 (225,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
059N	711-2N HEATER #66 (250,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr

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056N	711-2N HEATER #69 (280,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
104N	711-9N HEATER #15 (225,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
SH16	711-9N HEATER #16 (285,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
066N	711-9N HEATER #17 (225,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
SH18	711-9N HEATER #18 (252,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
078N	711-9N HEATER #19 (252,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
SH20	711-9N HEATER #20 (252,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
093N	711-9N HEATER #61 (230,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
84DN	713-1N EMERGENCY DIESEL GENERATOR (75 KW)	10/2001	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
330N	716-N HEATER #48 (250,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
297N	716-N HEATER #49 (252,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
293N	716-N HEATER #50 (252,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr

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275N	716-N HEATER #51 (230,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
SH52	716-N HEATER #52 (225,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
269N	716-N HEATER #53 (118,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
343N	716-N HEATER #54 (118,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
345N	716-N HEATER #55 (118,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
346N	716-N HEATER #56 (118,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
348N	716-N HEATER #57 (118,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
261N	716-N HEATER #58 (118,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
95BN	716-N FUEL OIL TANK (2,000 GAL)	04/1995	Y (B.3)	VOCs, Total HAPs	N/A	Meets regulatory requirement for tank <10,000 gallons
204N	717-3N HEATER #42 (250,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
250N	717-3N HEATER #43 (225,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
201N	717-3N HEATER #44 (252,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr

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259N	717-3N HEATER #45 (285,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
200N	717-3N HEATER #46 (250,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
166N	717-3N HEATER #47 (250,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
540N	717-3N FUEL OIL TANK (2,000 GAL)	04/1995	Y (B.3)	VOCs, Total HAPs	N/A	Meets regulatory requirement for tank <10,000 gallons
109N	717-8N HEATER #28 (118,000 BTU/HR)	01/1988	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
098N	717-8N HEATER #29 (118,000 BTU/HR)	01/1988	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
092N	717-8N HEATER #30 (118,000 BTU/HR)	01/1988	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
543N	717-8N FUEL OIL TANK (1,000 GAL)	04/1995	Y (B.3)	VOCs, Total HAPs	N/A	Meets regulatory requirement for tank <10,000 gallons
85DN	717-9N EMERGENCY DIESEL GENERATOR (75 KW)	10/2001	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
237N	717-9N HEATER #31 (250,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
322N	717-9N HEATER #32 (250,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
323N	717-9N HEATER #33 (230,000 BTU/HR)	05/1983	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr

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542N	717-9N FUEL OIL TANK (1,000 GAL)	04/1995	Y (B.3)	VOCs, Total HAPs	N/A	Meets regulatory requirement for tank <10,000 gallons
86DN	722-N SERVICE TRUCK #1 GENERATOR SET (7.5 KW)	01/2002	Y (B.4)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
87DN	722-N SERVICE TRUCK #2 GENERATOR SET (6.5 KW)	01/2002	Y (B.4)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
88DN	722-N SERVICE TRUCK #3 GENERATOR SET (7.5 KW)	01/2002	Y (B.4)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
89DN	722-N SERVICE TRUCK #4 GENERATOR SET (6.5 KW)	01/2002	Y (B.4)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
91DN	722-N SERVICE TRUCK #6 GENERATOR SET (6.5 KW)	01/2002	Y (B.4)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for generator <150KW
92DN	722-N SERVICE TRUCK #7 AIR COMPRESSOR (8.0 BHP)	01/2002	Y (B.4)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for internal combustion engine < 200 BHP
93DN	722-N SERVICE TRUCK #8 WATER PUMP (5.0 BHP)	01/2002	Y (B.4)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for internal combustion engine < 200 BHP
544N	725-1N FUEL OIL TANK (1,000 GAL)	4/1995	Y (B.3)	VOCs, Total HAPs	N/A	Meets regulatory requirement for tank <10,000 gallons
374N	725-2N FUEL OIL TANK (1,000 GAL)	1/1991	Y (B.3)	VOCs, Total HAPs	N/A	Meets regulatory requirement for tank <10,000 gallons
372N	725-2N HEATER (937,500 BTU/HR)	1/1991	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr

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03EN	PORTABLE DIESEL EQUIPMENT POOL < 200BHP	10/2003	Y (B.4)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for internal combustion engine < 200 BHP
04EN	PORTABLE GASOLINE EQUIPMENT POOL< 200BHP	10/2003	Y (B.4)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for internal combustion engine < 200 BHP
032N	645-2N DRUM CRUSHER	01/1988	N	TOTAL PARTICULATE MATTER (PM)	8.40E-05	5.0
032N	645-2N DRUM CRUSHER	01/1988	N	PARTICULATE MATTER (10 MICRONS)	4.20E-05	5.0
032N	645-2N DRUM CRUSHER	01/1988	N	PARTICULATE MATTER (2.5 MICRONS)	4.20E-05	5.0
032N	645-2N DRUM CRUSHER	01/1988	N	VOC (OZONE PRECURSORS)	1.04E-01	5.0
05EN	711-4N LEAD POT #1	06/2004	N	CARBON MONOXIDE	2.27E-02	5.0
05EN	711-4N LEAD POT #1	06/2004	N	OXIDES OF SULFUR (SOX)	1.79E-02	5.0
05EN	711-4N LEAD POT #1	06/2004	N	TOTAL PARTICULATE MATTER (PM)	4.12E-02	5.0
05EN	711-4N LEAD POT #1	06/2004	N	PARTICULATE MATTER (10 MICRONS)	4.12E-02	5.0
05EN	711-4N LEAD POT #1	06/2004	N	PARTICULATE MATTER (2.5 MICRONS)	4.12E-02	5.0
05EN	711-4N LEAD POT #1	06/2004	N	TOTAL TAPS/HAPS	1.04E-02	0.5
547N	715-2N DIESEL TANK #1 (10,000 GAL)	02/1995	N	TOTAL TAPS/HAPS	2.46E-03	0.5
547N	715-2N DIESEL TANK #1 (10,000 GAL)	02/1995	N	VOC (OZONE PRECURSORS)	5.23E-03	5.0
545N	715-2N DIESEL TANK #2 (10,000 GAL)	02/1995	N	TOTAL TAPS/HAPS	2.46E-03	0.5
545N	715-2N DIESEL TANK #2 (10,000 GAL)	02/1995	N	VOC (OZONE PRECURSORS)	5.23E-03	5.0

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16CN	715-2N GASOLINE TANK (10,000 GAL)	02/1995	N	TOTAL TAPS/HAPS	1.02E-01	0.5
16CN	715-2N GASOLINE TANK (10,000 GAL)	02/1995	N	VOC (OZONE PRECURSORS)	2.25E+00	5.0
546N	715-3N FUEL OIL TANK (10,000 GAL)	02/1995	N	TOTAL TAPS/HAPS	1.91E-03	0.5
546N	715-3N FUEL OIL TANK (10,000 GAL)	02/1995	N	VOC (OZONE PRECURSORS)	4.06E-03	5.0
082N	715-N DIESEL FUEL DISPENSING STATION	01/1985	N	TOTAL TAPS/HAPS	2.52E-01	0.5
082N	715-N DIESEL FUEL DISPENSING STATION	01/1985	N	VOC (OZONE PRECURSORS)	2.68E-01	5.0
096N	715-N GASOLINE DISPENSING STATION	01/1985	N	TOTAL TAPS/HAPS	2.45E-01	0.5
096N	715-N GASOLINE DISPENSING STATION	01/1985	N	VOC (OZONE PRECURSORS)	2.68E-01	5.0
080N	715-N UNDERGROUND DIESEL TANK (10,000 GAL)	03/1990	N	TOTAL TAPS/HAPS	5.12E-03	0.5
080N	715-N UNDERGROUND DIESEL TANK (10,000 GAL)	03/1990	N	VOC (OZONE PRECURSORS)	1.09E-02	5.0
101N	715-N UNDERGROUND GASOLINE TANK (10,000 GAL)	03/1990	N	TOTAL TAPS/HAPS	2.11E-01	0.5
101N	715-N UNDERGROUND GASOLINE TANK (10,000 GAL)	03/1990	N	VOC (OZONE PRECURSORS)	4.68E+00	5.0
70DN	NX0-2N SAND & GRAVEL STORAGE AREA (#2 GRAVEL)	01/1997	N	TOTAL PARTICULATE MATTER (PM)	7.17E-04	5.0
70DN	NX0-2N SAND & GRAVEL STORAGE AREA (#2 GRAVEL)	01/1997	N	PARTICULATE MATTER (10 MICRONS)	3.31E-04	5.0
70DN	NX0-2N SAND & GRAVEL STORAGE AREA (#2 GRAVEL)	01/1997	N	PARTICULATE MATTER (2.5 MICRONS)	4.97E-05	5.0
398N	NX0-2N SAND & GRAVEL STORAGE AREA (#4 STONE)	01/1985	N	TOTAL PARTICULATE MATTER (PM)	2.08E-03	5.0
398N	NX0-2N SAND & GRAVEL STORAGE AREA (#4 STONE)	01/1985	N	PARTICULATE MATTER (10 MICRONS)	7.64E-04	5.0
398N	NX0-2N SAND & GRAVEL STORAGE AREA (#4 STONE)	01/1985	N	PARTICULATE MATTER (2.5 MICRONS)	1.16E-04	5.0

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393N	NX0-2N SAND & GRAVEL STORAGE AREA (#5 STONE)	01/1985	N	TOTAL PARTICULATE MATTER (PM)	1.79E-03	5.0
393N	NX0-2N SAND & GRAVEL STORAGE AREA (#5 STONE)	01/1985	N	PARTICULATE MATTER (10 MICRONS)	7.08E-04	5.0
393N	NX0-2N SAND & GRAVEL STORAGE AREA (#5 STONE)	01/1985	N	PARTICULATE MATTER (2.5 MICRONS)	1.07E-04	5.0
394N	NX0-2N SAND & GRAVEL STORAGE AREA (#9 STONE)	01/1985	N	TOTAL PARTICULATE MATTER (PM)	7.12E-03	5.0
394N	NX0-2N SAND & GRAVEL STORAGE AREA (#9 STONE)	01/1985	N	PARTICULATE MATTER (10 MICRONS)	2.87E-03	5.0
394N	NX0-2N SAND & GRAVEL STORAGE AREA (#9 STONE)	01/1985	N	PARTICULATE MATTER (2.5 MICRONS)	4.33E-04	5.0
460N	NX0-2N SAND & GRAVEL STORAGE AREA (COLD MIX - UMP)	01/1994	N	TOTAL PARTICULATE MATTER (PM)	3.01E-03	5.0
460N	NX0-2N SAND & GRAVEL STORAGE AREA (COLD MIX - UMP)	01/1994	N	PARTICULATE MATTER (10 MICRONS)	1.07E-03	5.0
460N	NX0-2N SAND & GRAVEL STORAGE AREA (COLD MIX - UMP)	01/1994	N	PARTICULATE MATTER (2.5 MICRONS)	1.61E-04	5.0
64DN	NX0-2N SAND & GRAVEL STORAGE AREA (SAND)	01/1997	N	TOTAL PARTICULATE MATTER (PM)	2.40E-03	5.0
64DN	NX0-2N SAND & GRAVEL STORAGE AREA (SAND)	01/1997	N	PARTICULATE MATTER (10 MICRONS)	1.20E-03	5.0
64DN	NX0-2N SAND & GRAVEL STORAGE AREA (SAND)	01/1997	N	PARTICULATE MATTER (2.5 MICRONS)	1.80E-04	5.0
	P-Area Insignificant Activities					
253P	105-P BASIN EVAPORATOR #1 (1,370,000 BTU/HR)	9/2009	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr

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256P	105-P BASIN EVAPORATOR #2 (1,370,000 BTU/HR)	9/2009	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
258P	105-P BASIN EVAPORATOR #3 (1,370,000 BTU/HR)	9/2009	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
249P	105-P BASIN EVAPORATOR #4 (1,370,000 BTU/HR)	9/2009	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
254P	105-P BASIN EVAPORATOR #5 (1,370,000 BTU/HR)	9/2009	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
252P	105-P BASIN EVAPORATOR #6 (1,370,000 BTU/HR)	9/2009	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
260P	105-P BASIN EVAPORATOR #7 (1,370,000 BTU/HR)	12/2009	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
262P	105-P BASIN EVAPORATOR #8 (1,370,000 BTU/HR)	12/2009	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
264P	105-P BASIN EVAPORATOR #9 (1,370,000 BTU/HR)	12/2009	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
266P	105-P BASIN EVAPORATOR #10 (1,370,000 BTU/HR)	12/2009	Y (B.1)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for boiler <1.5 E+06 Btu/hr
247P	105-P FUEL OIL TANK #1 (20,000 GAL)	06/2009	N	TOTAL TAPS/HAPS	3.49E-03	0.5
247P	105-P FUEL OIL TANK #1 (20,000 GAL)	06/2009	N	VOC (OZONE PRECURSORS)	7.40E-03	5.0
267P	105-P FUEL OIL TANK #2 (20,000 GAL)	12/2009	N	TOTAL TAPS/HAPS	3.49E-03	0.5
267P	105-P FUEL OIL TANK #2 (20,000 GAL)	12/2009	N	VOC (OZONE PRECURSORS)	7.40E-03	5.0

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243P	P-AREA BRP PASSIVE SOIL VAPOR EXTRACTION	06/2001	N	TOTAL TAPS/HAPS	1.28E-03	0.5
243P	P-AREA BRP PASSIVE SOIL VAPOR EXTRACTION	06/2001	N	VOC (OZONE PRECURSORS)	6.22E-04	5.0
268P	131-P BAROBALL SOIL REMEDIATION (15 WELLS)	05/2010	N	TOTAL HAPS	1.44E-01	0.5
268P	131-P BAROBALL SOIL REMEDIATION (15 WELLS)	05/2010	N	VOC (OZONE PRECURSORS)	1.05E-01	5.0
	R-Area Insignificant Activities					
	N/A					
	S-Area Insignificant Activities					
D501	292-S EMERGENCY DIESEL GENERATOR #1 (2,050 KW)	01/1985	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
D504	292-S EMERGENCY DIESEL GENERATOR #2 (2,050 KW)	01/1985	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
253S	905-1S DEEPWELL DIESEL PUMP (174 BHP)	01/1985	Y (B.4)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for internal combustion engine < 200 BHP
403S	905-2S DEEPWELL DIESEL PUMP (174 BHP)	01/1985	Y (B.4)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for internal combustion engine < 200 BHP
332S	980-S EMERGENCY DIESEL FIRE PUMP (261 BHP)	0080-0066-CC 07/1985	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for emergency pump

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121S	221-S 90% FORMIC ACID FEED TANK (600 GAL)	2/2004	N	TOTAL TAPS/HAPS	6.63E-03	0.5
098S	221-S ACID DRAIN CATCH TANK (1,200 GAL)	2/2004	N	TOTAL TAPS/HAPS	1.81E-02	0.5
105S	221-S ADDITIVE MIX FEED TANK (100 GAL)	07/1985	N	VOC (OZONE PRECURSORS)	1.70E-07	5.0
110S	221-S CAUSTIC FEED TANK (600 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	2.01E-22	5.0
110S	221-S CAUSTIC FEED TANK (600 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	2.01E-22	5.0
110S	221-S CAUSTIC FEED TANK (600 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	2.01E-22	5.0
256S	221-S CDC-SME ISO POT (55 GAL)	2/2004	N	TOTAL TAPS/HAPS	2.84E-04	0.5
106S	221-S COPPER CATALYST TANK (100 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	3.20E-10	5.0
106S	221-S COPPER CATALYST TANK (100 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	3.20E-10	5.0
106S	221-S COPPER CATALYST TANK (100 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	3.20E-10	5.0
388S	221-S CRANE DECON FEED TANK (615 GAL)	2/1993	N	TOTAL PARTICULATE MATTER (PM)	2.77E-09	5.0
388S	221-S CRANE DECON FEED TANK (615 GAL)	2/1993	N	PARTICULATE MATTER (10 MICRONS)	2.77E-09	5.0
388S	221-S CRANE DECON FEED TANK (615 GAL)	2/1993	N	PARTICULATE MATTER (2.5 MICRONS)	2.77E-09	5.0
269S	221-S DECON & MAINTENANCE CELL	2/2004	N	TOTAL PARTICULATE MATTER (PM)	8.80E-02	5.0
269S	221-S DECON & MAINTENANCE CELL	2/2004	N	PARTICULATE MATTER (10 MICRONS)	8.80E-02	5.0
269S	221-S DECON & MAINTENANCE CELL	2/2004	N	PARTICULATE MATTER (2.5 MICRONS)	8.80E-02	5.0
269S	221-S DECON & MAINTENANCE CELL	2/2004	N	TOTAL TAPS/HAPS	8.80E-02	0.5
264S	221-S DECON WASTE TREATMENT TANK (DWTT) (11,000 GAL)	2/1993	N	TOTAL PARTICULATE MATTER (PM)	2.72E-08	5.0

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264S	221-S DECON WASTE TREATMENT TANK (DWTT) (11,000 GAL)	2/1993	N	PARTICULATE MATTER (10 MICRONS)	2.72E-08	5.0
264S	221-S DECON WASTE TREATMENT TANK (DWTT) (11,000 GAL)	2/1993	N	PARTICULATE MATTER (2.5 MICRONS)	2.72E-08	5.0
264S	221-S DECON WASTE TREATMENT TANK (DWTT) (11,000 GAL)	2/1993	N	TOTAL TAPS/HAPS	8.80E-03	0.5
259S	221-S DECONTAMINATION (ABRASIVE CLEANING)	2/2004	N	TOTAL PARTICULATE MATTER (PM)	4.30E+00	5.0
259S	221-S DECONTAMINATION (ABRASIVE CLEANING)	2/2004	N	PARTICULATE MATTER (10 MICRONS)	2.10E+00	5.0
259S	221-S DECONTAMINATION (ABRASIVE CLEANING)	2/2004	N	PARTICULATE MATTER (2.5 MICRONS)	2.10E-01	5.0
259S	221-S DECONTAMINATION (ABRASIVE CLEANING)	2/2004	N	TOTAL TAPS/HAPS	4.89E-02	0.5
096S	221-S FLOOR DRAIN CATCH TANK (1,200 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	3.29E-22	5.0
096S	221-S FLOOR DRAIN CATCH TANK (1,200 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	3.29E-22	5.0
096S	221-S FLOOR DRAIN CATCH TANK (1,200 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	3.29E-22	5.0
096S	221-S FLOOR DRAIN CATCH TANK (1,200 GAL)	07/1985	N	TOTAL TAPS/HAPS	3.29E-22	0.5
107S	221-S FRIT DECON FEED TANK (800 GAL)	2/2004	N	TOTAL TAPS/HAPS	1.85E-04	0.5
108S	221-S FRIT SLURRY FEED TANK (2,800 GAL)	2/2004	N	TOTAL TAPS/HAPS	8.66E-04	0.5
128S	221-S FRIT SLURRY MAKEUP TANK (2,400 GAL)	2/1993	N	TOTAL TAPS/HAPS	1.20E-04	0.5
265S	221-S MELTER FEED TANK (5,800 GAL)	07/1985	N	OXIDES OF NITROGEN (NOX)	1.26E-10	5.0
265S	221-S MELTER FEED TANK (5,800 GAL)	07/1985	N	TOTAL TAPS/HAPS	2.19E-01	0.5
268S	221-S MERCURY PURIFICATION CELL	2/2004	N	TOTAL TAPS/HAPS	8.80E-02	0.5

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109S	221-S NITRIC ACID DECON TANK (1,100 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	3.34E-10	5.0
109S	221-S NITRIC ACID DECON TANK (1,100 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	3.34E-10	5.0
109S	221-S NITRIC ACID DECON TANK (1,100 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	3.34E-10	5.0
109S	221-S NITRIC ACID DECON TANK (1,100 GAL)	07/1985	N	TOTAL TAPS/HAPS	1.43E-03	0.5
111S	221-S NITRIC ACID DILUTION TANK (100 GAL)	2/2004	N	TOTAL TAPS/HAPS	6.13E-06	0.5
100S	221-S NITRIC ACID FEED TANK (600 GAL)	2/2004	N	TOTAL TAPS/HAPS	5.53E-03	0.5
278S	221-S OFF GAS CONDENSATE TANK (OGCT) #1 (11,000 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	2.14E-07	5.0
278S	221-S OFF GAS CONDENSATE TANK (OGCT) #1 (11,000 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	2.14E-07	5.0
278S	221-S OFF GAS CONDENSATE TANK (OGCT) #1 (11,000 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	2.14E-07	5.0
278S	221-S OFF GAS CONDENSATE TANK (OGCT) #1 (11,000 GAL)	07/1985	N	OXIDES OF SULFUR (SOX)	1.96E-01	5.0
278S	221-S OFF GAS CONDENSATE TANK (OGCT) #1 (11,000 GAL)	07/1985	N	TOTAL TAPS/HAPS	9.23E-08	0.5
488S	221-S OFF GAS CONDENSATE TANK (OGCT) #2 (11,000 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	1.74E-07	5.0
488S	221-S OFF GAS CONDENSATE TANK (OGCT) #2 (11,000 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	1.74E-07	5.0
488S	221-S OFF GAS CONDENSATE TANK (OGCT) #2 (11,000 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	1.74E-07	5.0
488S	221-S OFF GAS CONDENSATE TANK (OGCT) #2 (11,000 GAL)	07/1985	N	OXIDES OF SULFUR (SOX)	1.85E-01	5.0
488S	221-S OFF GAS CONDENSATE TANK (OGCT) #2 (11,000 GAL)	07/1985	N	TOTAL TAPS/HAPS	7.82E-08	0.5
102S	221-S ORGANIC ACID DRAIN TANK #1 (1,200 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	2.36E-07	5.0
102S	221-S ORGANIC ACID DRAIN TANK #1 (1,200 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	2.36E-07	5.0

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102S	221-S ORGANIC ACID DRAIN TANK #1 (1,200 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	2.36E-07	5.0
103S	221-S ORGANIC ACID DRAIN TANK #2 (1,200 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	4.42E-09	5.0
103S	221-S ORGANIC ACID DRAIN TANK #2 (1,200 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	4.42E-09	5.0
103S	221-S ORGANIC ACID DRAIN TANK #2 (1,200 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	4.42E-09	5.0
286S	221-S POTASSIUM NITRATE MAKEUP TANK (160 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	4.04E-11	5.0
286S	221-S POTASSIUM NITRATE MAKEUP TANK (160 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	4.04E-11	5.0
286S	221-S POTASSIUM NITRATE MAKEUP TANK (160 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	4.04E-11	5.0
275S	221-S PRECIPITATE REACTOR FEED TANK (PRFT) (7,000 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	7.22E-07	5.0
275S	221-S PRECIPITATE REACTOR FEED TANK (PRFT) (7,000 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	7.22E-07	5.0
275S	221-S PRECIPITATE REACTOR FEED TANK (PRFT) (7,000 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	7.22E-07	5.0
274S	221-S RECYCLE COLLECTION TANK (RCT) (42,000 GAL)	07/1985	N	TOTAL TAPS/HAPS	1.76E-01	0.5
274S	221-S RECYCLE COLLECTION TANK (RCT) (42,000 GAL)	07/1985	N	OXIDES OF NITROGEN (NOX)	1.73E-03	5.0
263S	221-S SLURRY MIX EVAP. COND. TANK (SMECT) (23,500 GAL)	07/1985	N	OXIDES OF NITROGEN (NOX)	2.11E-01	5.0
263S	221-S SLURRY MIX EVAP. COND. TANK (SMECT) (23,500 GAL)	07/1985	N	TOTAL TAPS/HAPS	1.73E-01	0.5
101S	221-S SODIUM NITRITE FEED TANK (600 GAL)	07/1986	N	TOTAL PARTICULATE MATTER (PM)	1.65E-08	5.0
101S	221-S SODIUM NITRITE FEED TANK (600 GAL)	07/1986	N	PARTICULATE MATTER (10 MICRONS)	1.65E-08	5.0

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101S	221-S SODIUM NITRITE FEED TANK (600 GAL)	07/1986	N	PARTICULATE MATTER (2.5 MICRONS)	1.65E-08	5.0
289S	221-S SODIUM NITRITE MAKEUP TANK (540 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	1.46E-09	5.0
289S	221-S SODIUM NITRITE MAKEUP TANK (540 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	1.46E-09	5.0
289S	221-S SODIUM NITRITE MAKEUP TANK (540 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	1.46E-09	5.0
138S	292-S UNDERGROUND DIESEL TANK #1 (15,000 GAL)	1/1987	N	TOTAL TAPS/HAPS	4.02E-03	0.5
138S	292-S UNDERGROUND DIESEL TANK #1 (15,000 GAL)	1/1987	N	VOC (OZONE PRECURSORS)	8.54E-03	5.0
239S	292-S UNDERGROUND DIESEL TANK #2 (15,000 GAL)	1/1987	N	TOTAL TAPS/HAPS	4.02E-03	0.5
239S	292-S UNDERGROUND DIESEL TANK #2 (15,000 GAL)	1/1987	N	VOC (OZONE PRECURSORS)	8.54E-03	5.0
293S	422-S 50% NITRIC ACID TANK (1,000 GAL)	1/1993	N	TOTAL TAPS/HAPS	1.07E-02	0.5
354S	422-S BORIC ACID (DRY MATERIAL HANDLING)	10/1986	N	TOTAL PARTICULATE MATTER (PM)	2.58E-02	5.0
354S	422-S BORIC ACID (DRY MATERIAL HANDLING)	10/1986	N	PARTICULATE MATTER (10 MICRONS)	9.04E-03	5.0
354S	422-S BORIC ACID (DRY MATERIAL HANDLING)	10/1986	N	PARTICULATE MATTER (2.5 MICRONS)	9.04E-03	5.0
288S	422-S CATALYST MAKEUP TANK (600 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	1.23E-09	5.0
288S	422-S CATALYST MAKEUP TANK (600 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	1.23E-09	5.0
288S	422-S CATALYST MAKEUP TANK (600 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	1.23E-09	5.0
301S	422-S CAUSTIC TANK (6,500 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	2.39E-21	5.0
301S	422-S CAUSTIC TANK (6,500 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	2.39E-21	5.0
301S	422-S CAUSTIC TANK (6,500 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	2.39E-21	5.0

1. Insig. Act. (IA) DHEC Unit ID:	2. Insignificant Activity Unit ID Description	3. Const. Permit or App. Date (if applic.):	4. On SC Insignificant Activity List (Y or N)	5. Pollutant(s)	6. Emission Rate (Uncontrolled)	7. Demin. Rate
129S	422-S FORMIC ACID DILUTION TANK (2,000 GAL)	2/1993	N	TOTAL TAPS/HAPS	1.53E-04	0.5
131S	422-S FORMIC ACID FEED TANK (2,000 GAL)	2/1993	N	TOTAL TAPS/HAPS	1.53E-04	0.5
374S	422-S FORMIC ACID TANK #1 (6,500 GAL)	2/1993	N	TOTAL TAPS/HAPS	4.63E-03	0.5
298S	422-S FORMIC ACID TANK #1 (6,500 GAL)	8/1986	N	TOTAL TAPS/HAPS	2.31E-03	0.5
349S	422-S FRIT TRANSFER (DRY MATERIAL HANDLING)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	9.20E-01	5.0
349S	422-S FRIT TRANSFER (DRY MATERIAL HANDLING)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	5.59E-02	5.0
349S	422-S FRIT TRANSFER (DRY MATERIAL HANDLING)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	5.59E-02	5.0
349S	422-S FRIT TRANSFER (DRY MATERIAL HANDLING)	07/1985	N	TOTAL TAPS/HAPS	1.17E+00	0.5
				CHLORINE	*4.14E-02*	0.5
				CHROMIUM	*8.28E-02*	0.5
				CHROMIUM COMPOUNDS (AS CR2O3)	*1.21E-01*	0.5
				LEAD	*8.28E-02*	0.5
				LEAD COMPOUNDS (AS PBO)	*8.94E-02*	0.5
				MANGANESE	*1.65E-01*	0.5
				MANGANESE COMPOUNDS (AS MNO2)	*2.12E-01*	0.5
				NICKEL	*1.65E-01*	0.5
				NICKEL COMPOUNDS (AS NIO)	*2.09E-01*	0.5
291S	422-S NITRIC ACID MAKEUP TANK (1,300 GAL)	1/1993	N	TOTAL TAPS/HAPS	3.97E-04	0.5
351S	422-S OXALIC ACID (DRY MATERIAL HANDLING)	10/1986	N	TOTAL PARTICULATE MATTER (PM)	2.58E-02	5.0

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351S	422-S OXALIC ACID (DRY MATERIAL HANDLING)	10/1986	N	PARTICULATE MATTER (10 MICRONS)	9.04E-03	5.0
351S	422-S OXALIC ACID (DRY MATERIAL HANDLING)	10/1986	N	PARTICULATE MATTER (2.5 MICRONS)	9.04E-03	5.0
132S	422-S OXALIC ACID MAKEUP TANK (1,300 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	6.07E-10	5.0
132S	422-S OXALIC ACID MAKEUP TANK (1,300 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	6.07E-10	5.0
132S	422-S OXALIC ACID MAKEUP TANK (1,300 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	6.07E-10	5.0
352S	422-S SODIUM NITRITE (DRY MATERIAL HANDLING)	10/1986	N	TOTAL PARTICULATE MATTER (PM)	2.58E-02	5.0
352S	422-S SODIUM NITRITE (DRY MATERIAL HANDLING)	10/1986	N	PARTICULATE MATTER (10 MICRONS)	9.04E-03	5.0
352S	422-S SODIUM NITRITE (DRY MATERIAL HANDLING)	10/1986	N	PARTICULATE MATTER (2.5 MICRONS)	9.04E-03	5.0
178S	511-S PRECIPITATE TANK (5,800 GAL)	3/1993	N	TOTAL TAPS/HAPS	9.99E-02	0.5
178S	511-S PRECIPITATE TANK (5,800 GAL)	3/1993	N	VOC (OZONE PRECURSORS)	9.99E-02	5.0
177S	511-S RECYCLE TANK (5,800 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	2.15E-07	5.0
177S	511-S RECYCLE TANK (5,800 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	2.15E-07	5.0
177S	511-S RECYCLE TANK (5,800 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	2.15E-07	5.0
176S	511-S SLUDGE TANK (5,800 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	6.45E-07	5.0
176S	511-S SLUDGE TANK (5,800 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	6.45E-07	5.0
176S	511-S SLUDGE TANK (5,800 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	6.45E-07	5.0
176S	511-S SLUDGE TANK (5,800 GAL)	07/1985	N	TOTAL TAPS/HAPS	3.53E-08	0.5
394S	512-7S 2% CAUSTIC MIX TANK (1,000 GAL)	12/1995	N	TOTAL PARTICULATE MATTER (PM)	2.84E-22	5.0

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394S	512-7S 2% CAUSTIC MIX TANK (1,000 GAL)	12/1995	N	PARTICULATE MATTER (10 MICRONS)	2.84E-22	5.0
394S	512-7S 2% CAUSTIC MIX TANK (1,000 GAL)	12/1995	N	PARTICULATE MATTER (2.5 MICRONS)	2.84E-22	5.0
395S	512-7S 50% CAUSTIC TANK (1,000 GAL)	12/1995	N	TOTAL PARTICULATE MATTER (PM)	3.54E-21	5.0
395S	512-7S 50% CAUSTIC TANK (1,000 GAL)	12/1995	N	PARTICULATE MATTER (10 MICRONS)	3.54E-21	5.0
395S	512-7S 50% CAUSTIC TANK (1,000 GAL)	12/1995	N	PARTICULATE MATTER (2.5 MICRONS)	3.54E-21	5.0
407S	512-7S OXALIC ACID TANK (6,000 GAL)	12/1995	N	TOTAL PARTICULATE MATTER (PM)	3.44E-08	5.0
407S	512-7S OXALIC ACID TANK (6,000 GAL)	12/1995	N	PARTICULATE MATTER (10 MICRONS)	3.44E-08	5.0
407S	512-7S OXALIC ACID TANK (6,000 GAL)	12/1995	N	PARTICULATE MATTER (2.5 MICRONS)	3.44E-08	5.0
074S	980-S 5% NAOH MIX TANK (150 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	1.64E-22	5.0
074S	980-S 5% NAOH MIX TANK (150 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	1.64E-22	5.0
074S	980-S 5% NAOH MIX TANK (150 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	1.64E-22	5.0
074S	980-S 5% NAOH MIX TANK (150 GAL)	07/1985	N	TOTAL TAPS/HAPS	1.64E-22	0.5
075S	980-S 5% NAOH DAY TANK (150 GAL)	09/1986	N	TOTAL PARTICULATE MATTER (PM)	1.64E-22	5.0
075S	980-S 5% NAOH DAY TANK (150 GAL)	09/1986	N	PARTICULATE MATTER (10 MICRONS)	1.64E-22	5.0
075S	980-S 5% NAOH DAY TANK (150 GAL)	09/1986	N	PARTICULATE MATTER (2.5 MICRONS)	1.64E-22	5.0
075S	980-S 5% NAOH DAY TANK (150 GAL)	09/1986	N	TOTAL TAPS/HAPS	1.64E-22	0.5
080S	980-S 10% NAOH MIX TANK (150 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	2.00E-05	5.0
080S	980-S 10% NAOH MIX TANK (150 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	2.00E-05	5.0

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080S	980-S 10% NAOH MIX TANK (150 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	2.00E-05	5.0
080S	980-S 10% NAOH MIX TANK (150 GAL)	07/1985	N	TOTAL TAPS/HAPS	2.00E-05	0.5
081S	980-S 10% NAOH DAY TANK (150 GAL)	02/1987	N	TOTAL PARTICULATE MATTER (PM)	1.74E-21	5.0
081S	980-S 10% NAOH DAY TANK (150 GAL)	02/1987	N	PARTICULATE MATTER (10 MICRONS)	1.74E-21	5.0
081S	980-S 10% NAOH DAY TANK (150 GAL)	02/1987	N	PARTICULATE MATTER (2.5 MICRONS)	1.74E-21	5.0
192S	980-S 8% NITRIC ACID MIX TANK (375 GAL)	3/1993	N	TOTAL TAPS/HAPS	3.71E-02	0.5
071S	980-S NAOH WASTE NEUTRALIZATION TANK #1 (6,100 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	2.03E-22	5.0
071S	980-S NAOH WASTE NEUTRALIZATION TANK #1 (6,100 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	2.03E-22	5.0
071S	980-S NAOH WASTE NEUTRALIZATION TANK #1 (6,100 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	2.03E-22	5.0
076S	980-S NAOH WASTE NEUTRALIZATION TANK #2 (6,100 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	8.78E-23	5.0
076S	980-S NAOH WASTE NEUTRALIZATION TANK #2 (6,100 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	8.78E-23	5.0
076S	980-S NAOH WASTE NEUTRALIZATION TANK #2 (6,100 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	8.78E-23	5.0
335S	980-S NITRIC ACID WASTE TANK (2,100 GAL)	2/1993	N	TOTAL TAPS/HAPS	4.85E-02	0.5
079S	980-S ORGANIC WASTE NEUTRALIZATION TANK #1 (3,200 GAL)	07/1985	N	TOTAL PARTICULATE MATTER (PM)	6.73E-23	5.0

1. Insig. Act. (IA) DHEC Unit ID:	2. Insignificant Activity Unit ID Description	3. Const. Permit or App. Date (if applic.):	4. On SC Insignificant Activity List (Y or N)	5. Pollutant(s)	6. Emission Rate (Uncontrolled)	7. Demin. Rate
079S	980-S ORGANIC WASTE NEUTRALIZATION TANK #1 (3,200 GAL)	07/1985	N	PARTICULATE MATTER (10 MICRONS)	6.73E-23	5.0
079S	980-S ORGANIC WASTE NEUTRALIZATION TANK #1 (3,200 GAL)	07/1985	N	PARTICULATE MATTER (2.5 MICRONS)	6.73E-23	5.0
079S	980-S ORGANIC WASTE NEUTRALIZATION TANK #1 (3,200 GAL)	07/1985	N	TOTAL TAPS/HAPS	3.64E-03	0.5
020S	980-S ORGANIC WASTE NEUTRALIZATION TANK #2 (3,200 GAL)	05/1986	N	TOTAL PARTICULATE MATTER (PM)	6.70E-23	5.0
020S	980-S ORGANIC WASTE NEUTRALIZATION TANK #2 (3,200 GAL)	05/1986	N	PARTICULATE MATTER (10 MICRONS)	6.70E-23	5.0
020S	980-S ORGANIC WASTE NEUTRALIZATION TANK #2 (3,200 GAL)	05/1986	N	PARTICULATE MATTER (2.5 MICRONS)	6.70E-23	5.0
020S	980-S ORGANIC WASTE NEUTRALIZATION TANK #2 (3,200 GAL)	05/1986	N	TOTAL TAPS/HAPS	3.62E-03	0.5
	T-Area Insignificant Activities					
308T	TNX MICROBLOWERS	12/2006	N	TOTAL TAPS/HAPS	4.16E-01	0.5
308T	TNX MICROBLOWERS	12/2006	N	VOC (OZONE PRECURSORS)	3.47E-01	5.0
	Z-Area Insignificant Activities					

1. Insig. Act. (IA) DHEC Unit ID:	2. Insignificant Activity Unit ID Description	3. Const. Permit or App. Date (if applic.):	4. On SC Insignificant Activity List (Y or N)	5. Pollutant(s)	6. Emission Rate (Uncontrolled)	7. Demin. Rate
035Z	901-Z EMERGENCY DIESEL FIRE PUMP (141 BHP)	1/1986	Y (B.4)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for internal combustion engine < 200 BHP
040Z	956-Z EMERGENCY DIESEL GENERATOR (425 KW)	0080-0080-CA 12/1985	Y (B.2)	PM, PM_{10}, $PM_{2.5}$, SOx, NOx, VOCs, Total HAPs	N/A	Meets regulatory requirement for an emergency generator
042Z	956-Z DIESEL FUEL TANK (1,500 GAL)	12/1985	Y (B.3)	VOCs, Total HAPs	N/A	Meets regulatory requirement for tank <10,000 gallons
091Z	210-Z 16% SODIUM NITRATE TANK (7,500 GAL)	12/1985	N	TOTAL PARTICULATE MATTER (PM)	1.80E-07	5.0
091Z	210-Z 16% SODIUM NITRATE TANK (7,500 GAL)	12/1985	N	PARTICULATE MATTER (10 MICRONS)	1.80E-07	5.0
091Z	210-Z 16% SODIUM NITRATE TANK (7,500 GAL)	12/1985	N	PARTICULATE MATTER (2.5 MICRONS)	1.80E-07	5.0
091Z	210-Z 16% SODIUM NITRATE TANK (7,500 GAL)	12/1985	N	TOTAL TAPS/HAPS	2.48E-03	0.5
091Z	210-Z 16% SODIUM NITRATE TANK (7,500 GAL)	12/1985	N	VOC (OZONE PRECURSORS)	2.39E-03	5.0
125Z	210-Z 50% NAOH TANK (310 GAL)	01/2008	N	TOTAL PARTICULATE MATTER (PM)	1.26E-23	5.0
125Z	210-Z 50% NAOH TANK (310 GAL)	01/2008	N	PARTICULATE MATTER (10 MICRONS)	1.26E-23	5.0
125Z	210-Z 50% NAOH TANK (310 GAL)	01/2008	N	PARTICULATE MATTER (2.5 MICRONS)	1.26E-23	5.0
103Z	451-Z SALTSTONE VAULTS	01/1990	N	TOTAL TAPS/HAPS	2.57E-07	0.5
103Z	451-Z SALTSTONE VAULTS	01/1990	N	VOC (OZONE PRECURSORS)	2.57E-07	5.0

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Form H

Summary of SRNS-J2220-2010-00217 revision:

1. Removed equipment ID 39GA since is Abandoned in Place and removed from the equipment list under N031.
2. Removed equipment ID 463N since this equipment now permanently serves as an emergency diesel generator in C-Area and is no longer part of the N031 unit.
3. Corrected boxes 7 and 8 for the N031 equipment. None of the N031 equipment has raincaps or horizontal discharge. These units are fabricated with a "flip" cap on a hinge. Based on discussions with SCDHEC modeling personnel these flip caps are not considered rain caps since they do not impede the exhaust.

South Carolina Department of Health and Environmental Control

Title V Permit Application
Stack/Vent Information – Form H
Bureau of Air Quality

STACK/VENT INFORMATION							
1. Exhaust Point ID	2. Emission/ SCDHEC Equipment ID	3. Stack Height (ft)	4. Stack Diameter (ft)	5. Stack Gas Exit Temp (degrees F)	6.Stack Gas Exhaust Velocity (ft/sec)	7. Non-Vertical Discharge (H) or Raincap (R)	8. Vertical component of Stack Exhaust Velocity (ft/sec)
A G P 007	A-005: 794A	16	0.5	78	32.5	H	0.00328
A P F 002	A-013 66GA	50	3	350	44		44
A P F 003	A-014 67GA	45	2.5	458	47		47
B Q H 001	B-001: 110B B-002: 111B B-003: 112B	33	2.2	500	5.37	R	0.00328
D P F 001	D-001: 021D	125	9.881	370	35		35
D P F 002	D-002: 022D	125	9.881	370	35		35
D P F 003	D-003: 023D	125	9.881	370	35		35
D P F 004	D-004: 024D	125	9.881	370	35		35
D P J 005	D-006: 033D, 198D, 199D, 201D	8	0	78	0.0325		0.0325
D P J 006	D-006: 034D	25	0	78	0.0325		0.0325
F S P 023	F-002: 77CF	200	10	78	58.14		58.14
G E P 001	M-006: 271G	63.75	0.5	68	110.5		110.5
G E P 030	M-007: 311G, 611M, 612M	18	1	100	64		64

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STACK/VENT INFORMATION							
1. Exhaust Point ID	2. Emission/ SCDHEC Equipment ID	3. Stack Height (ft)	4. Stack Diameter (ft)	5. Stack Gas Exit Temp (degrees F)	6.Stack Gas Exhaust Velocity (ft/sec)	7. Non-Vertical Discharge (H) or Raincap (R)	8. Vertical component of Stack Exhaust Velocity (ft/sec)
G E P 032	G-004: 224C, 288G, 289G, 312G, 321G, 322G, 323G, 324G, 333G, 339G, 589M	21	0.833	250	64		64
H S E 012	H-019: 92EH	12	0.83	1000	214	R	0.00328
H S E 013	H-020: 93EH	12	0.83	1000	214	R	0.00328
H S P 002	H-001: 01DH, 02DH, 03DH, 04DH, 05DH, 06DH, 07DH, 08DH, 09DH, 10DH, 12DH, 13DH, 20DH, 24DH, 99CH	200	10	78	59.6		59.6
H S T 036	H-015: 770H, 772H, 773H, 774H	0.5	0.33	78	0.0325	H	0.00328
K P F 003	K-002: 200K	22.5	3.33	603	32	R	0.00328
M E P 2303	M-005: 529M	71	0.995	65	67	R	0.00328
N B J 028	N-001: 370N	6	0	78	0.0325		0.0325
N G E 020	N-031: 411N	8.1	0.42	890	134		134
N G E 026	N-020: 418N	13.5	0.542	798	160	R	0.00328
N G E 028	N-031: 51DN	9.81	0.38	960	215		215
N G E 029	N-031: 52DN	9.81	0.38	960	215		215

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STACK/VENT INFORMATION							
1. Exhaust Point ID	2. Emission/ SCDHEC Equipment ID	3. Stack Height (ft)	4. Stack Diameter (ft)	5. Stack Gas Exit Temp (degrees F)	6.Stack Gas Exhaust Velocity (ft/sec)	7. Non-Vertical Discharge (H) or Raincap (R)	8. Vertical component of Stack Exhaust Velocity (ft/sec)
N G E 031	N-031: 54DN	9.81	0.38	960	215		215
N G E 032	N-031: 50DN	8.08	0.5	820	215		215
N G E 039	N-031: 61DN	8.125	0.417	875	206		206
N G E 040	N-031: 62DN	8.125	0.417	875	206		206
N G E 044	N-031: 76DN	7.67	0.417	885	215		215
N G E 045	N-031: 77DN	7.67	0.417	885	215		215
N G E 046	N-031: 78DN	7.67	0.417	885	215		215
S D P 007	S-001: 266S, 267S, 270S	147	5	80	85		85
Z D P 071	Z-001: 052Z	75	0.874	78	69	H	0.00328
Z D P 072	Z-001: 075Z	46	1.221	78	32.5	H	0.00328
Z D P 088	Z-001: 069Z	36	1.221	78	32.5	H	0.00328
Z D P 089	Z-001: 074Z	36	1.221	78	32.5	H	0.00328
Z D T 001	Z-001: 071Z, 072Z, 073Z	109	0.903	78	32.5	H	0.00328
Z D T 002	Z-001: 076Z	109	0.903	78	32.5	H	0.00328

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STACK/VENT INFORMATION (CONTINUED)							
1. Exhaust Point ID	9. UTM East	10. UTM North	11. Distance to Plant Boundary	12. Dimensions of Plume Obstructing Structure (ft)			13. Date last modeled (if Applicable)
				Height	Length	Width	
A G P 007	431537.587	3689066.437	4318.013	30	132	62	04/05/2010
A L E 015	438767.276	3678798.342	35433.829	*	*	*	04/05/2010
A P F 002	431513.301	3688966.199	4571.136	35	168	61	04/09/09 04/05/2010
A P F 003	431539.24	3688973.021	4589.934	40	68	35	04/09/09 04/05/2010
B Q H 001	431818.939	3682704.003	13698.55	22	144	122	04/09/09 04/05/2010
D P F 001	430987.843	3673793.903	5341.141	104	242	220	04/09/09 04/05/2010
D P F 002	430986.588	3673795.628	5338.597	104	242	220	04/09/09 04/05/2010
D P F 003	430970.806	3673817.307	5307.271	104	242	220	04/09/09 04/05/2010
D P F 004	430969.551	3673819.031	5304.835	104	242	220	04/09/09 04/05/2010
D P J 005	431116.251	3673758.855	5723.676	104	242	220	04/05/2010
D P J 006	431182.107	3673679.779	5886.117				04/05/2010
F S P 023	437031.684	3683049.018	30803.007	50	820	122	04/05/2010
G E P 001	431490.465	3689885.021	2241.677	26	10	8	11/1/1998 04/05/2010
G E P 030	431268.107	3688055.643	7178.082	1	330	280	04/09/09 04/05/2010
G E P 032	429607.982	3689960.446	733.272	*	*	*	11/01/1998 12/01/2004 08/01/2005 04/09/09 04/05/2010
H S E 012	440397.926	3683339.837	37412.335	50	820	122	04/05/2010
H S E 013	440410.391	3683348.911	37393.916	50	820	122	04/05/2010
H S P 002	440447.961	3683228.594	37807.031	50	820	122	04/05/2010
H S T 036	440448.085	3683228.684	37806.849	50	820	122	01/01/1953 04/05/2010

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STACK/VENT INFORMATION (CONTINUED)							
1. Exhaust Point ID	9. UTM East	10. UTM North	11. Distance to Plant Boundary	12. Dimensions of Plume Obstructing Structure (ft)			13. Date last modeled (If Applicable)
				Height	Length	Width	
K P F 003	438358.93	3674503.15	29576.976	15	45	44	04/09/09 04/05/2010
M E P 2303	431253.302	3688575.229	5497.356	12	20	18	11/01/1998 04/05/2010
N B J 028	439360.659	3678823.832	37177.733	*	*	*	04/05/2010
N G E 004	438540.496	3678872.019	34911.601	*	*	*	04/05/2010
N G E 020	438730.588	3678610.888	35028.187	*	*	*	8/1/1992 04/05/2010
N G E 026	438741.347	3678596.107	35035.73	*	*	*	04/01/1993 04/05/2010
N G E 028	438530.151	3678860.343	34862.891	*	*	*	04/05/2010
N G E 029	438527.687	3678858.55	34852.939	*	*	*	04/05/2010
N G E 031	438522.76	3678854.963	34833.036	*	*	*	04/05/2010
N G E 032	438520.297	3678853.17	34823.086	*	*	*	04/05/2010
N G E 039	438709.068	3678640.45	35013.398	*	*	*	04/05/2010
N G E 040	438725.208	3678618.279	35024.452	*	*	*	04/05/2010
N G E 044	440512.235	3683853.496	35885.598	*	*	*	04/05/2010
N G E 045	441250.776	3684387.004	34980.222	*	*	*	04/05/2010
N G E 046	440510.716	3683845.229	35910.315	*	*	*	04/05/2010
S D P 007	440271.055	3683796.522	35857.466	125	465	164	04/05/2010
Z D P 071	440318.49	3684901.988	32404.969	74	96	96	04/05/2010
Z D P 072	440259.12	3684862.89	32473.364	10	18	12	04/05/2010
Z D P 088	440259.14	3684864.438	32468.503	10	18	12	04/05/2010
Z D P 089	440259.455	3684860.899	32479.944	10	18	12	04/05/2010
Z D T 001	440262.145	3684857.203	32494.044	10	18	12	04/05/2010
Z D T 002	440256.875	3684868.066	32455.005	10	18	12	04/05/2010

* Source is either mobile or located in a remote area.

SRNS-J2220-2010-00217

December 10, 2010

TO: K. A. Wolfe, 705-3C

FROM: E. D. Kabela, 773-A

Air Dispersion Modeling for the SRS Title V Permit Renewal

Summary

The SRNL Atmospheric Technologies Group has conducted air dispersion modeling for Site-wide emissions of seven criteria and 58 toxic air pollutants regulated by the South Carolina Department of Health and Environmental Control (DHEC). Additionally, Revision 1 included modeling three criteria air pollutants to determine pollutant concentration increases over previously established baseline concentrations. This modeling was requested by the SRNS Environmental Policy, Program, and Permits (EPP&P) Section as part of an operating permit renewal to be submitted to DHEC under Title V of the U.S. Clean Air Act. Modeling results, summarized in Table 1 (Toxic Air Pollutants), Table 2 (Criteria Pollutants), and Table 3 (Prevention of Significant Deterioration) indicate that emissions permitted under the Title V requirements will not adversely impact applicable air quality standards.

Background

Title V of the 1990 Clean Air Act Amendments establishes requirements for comprehensive air permit programs managed by cognizant state-level regulatory authorities (Ref. 1). Pursuant to the implementation of Title V in South Carolina, DHEC requires the SRS to determine ambient concentration 'baselines' for all regulated air pollutants emitted from applicable Title V sources. The resulting 'baselines' serve a two-fold purpose: (1) demonstrates existing compliance with applicable ambient standards, and (2) provides a threshold from which subsequent air permit applications for new or modified sources can be evaluated to ensure air quality standards are maintained. Ambient concentration 'baselines' are determined from air dispersion modeling.

South Carolina Air Pollution Regulation 62.5 (Ref. 2) establishes ambient standards for nine 'criteria' air pollutants (Standard 2) and 256 toxic air pollutants (Standard 8) as well as increases in ambient air increments from an established baseline (Standard 7).

Air pollution sources at SRS that are subject to the requirements of Title V have the potential to emit seven of the 'criteria' pollutants and fifty-eight of the Standard 8 pollutants. The specific pollutants emitted from the Title V sources, the number of sources of each pollutant, and the corresponding ambient standard are summarized in Tables 1 and 2, respectively. Table 3 illustrates the maximum allowable ambient air increase from the established baseline. Only the mobile diesel units (NGE44) were modeled for Standard 7 compliance due to their inclusion after baseline establishment while all other sources were present before baseline establishment.

This modeling analysis was conducted with EPA's AERMOD atmospheric dispersion model. AERMOD is recommended by the EPA for regulatory air quality analyses (Ref. 3). The model allows for the variability in wind, turbulence, and temperature with height above ground and incorporates boundary layer scaling parameters for a more realistic treatment of dispersion through the atmospheric boundary layer in both stable and convective atmospheric conditions (Ref. 4, 5). For this analysis, the model was executed in regulatory default mode.

Emissions included in the 'baseline' consisted of: (1) sources not exempt from Title V air permit requirements, and (2) sources that are exempt from the Title V requirements only because emissions do not exceed de minimis levels (classified as an insignificant activity). Sources not included in the modeling are those exempt from Title V due to source type, such as backup generators operating less than 250 hours per year, emissions due to maintenance activities, administrative activities, or the use of virgin fuels.

Emissions data for the applicable sources were downloaded from the 2010 Air Information and Reporting System (AIRS) database and provided by EPP&P following a final quality assurance check. All sources were conservatively assumed to emit continuously (24 hours per day) at the maximum potential (i.e., permitted maximum) emission rate. Revision 1 modeling included emission sources from the newly constructed K- and L-Area Biomass Boilers.

'Baseline' concentrations reported in the Tables 1 and 2 are defined as the maximum concentration that occurs anywhere along or beyond the SRS boundary. Concentration maxima were determined through the application of receptor arrays. A basic array of 984 receptors along the SRS perimeter was used for all emissions regardless of proximity to the center of the site or proximity to the site boundary. Receptor spacing for this array ranged from 50 meters to 100 meters. Revision 1 incorporated an additional array of 108 receptors located along U.S. Highway 278 with a spacing of 50 to 100 meters. Only U.S. Highway 278 was included in this revision of modeling because it is the only road or railroad which traverses SRS property that SRS does not routinly patrol with site security forces. Sinage is in place along State Highway 125, SRS Road 1, and the CSX railway which instructs passengers not to stop along these paths unless there is an emergency, in which case they are prompted to call the SRS Operations Center. Due to this signage, State Highway 125, SRS Road 1, and CSX railway were exempted as receptor locations by DHEC.

A grid of 100 receptors was located beyond the site perimeter adjacent to the southwest corner of the site to account for possible maximum concentrations beyond the site boundary from emissions in D-Area. This grid had a receptor spacing of 500 meters to 1

kilometer. Additional receptors in the vicinity of A-Area were not needed since all A-Area sources emit near ground level with maximum modeled concentrations occuring within the SRS boundary.

Receptor elevations supplied to the model were based on interpolations from U.S. Geological Survey 1:48,000 scale topographic maps. The height scale (terrain max) needed as input for AERMOD for each receptor was determined using the EPA's AERMAP utility. Input for AERMAP consisted of a file of 7.5 minute Digital Elevation Model (DEM) data for SRS supplied by Oris Solutions, LLC.

Meteorological data files used as input to AERMOD were prepared using EPA's AERMET preprocessor (Ref. 6). Input for AERMET consisted of hourly observations from the Augusta, GA's Bush Field, twice-daily upper air soundings from the Atlanta, GA radiosonde station, and quality assured, 15-minute values of wind and temperature from the four levels (4-, 18-, 36-, and 61-meters) of the SRS Central Climatology tower. Data files were processed for each of the five years 2002-2006. The hourly observations for Augusta were obtained on DVD from the National Climate Data Center, Asheville, NC. These data were formatted in the Integrated Surface Hourly Observations (ISHD) format. The upper-air soundings were obtained from the National Oceanic and Atmospheric Administration (NOAA) Forecast Systems Laboratory web site in the FSL format. The AERMET preprocessor is programmed to read both of these input formats.

The onsite data set from Central Climatology (near the SRS N-Area) were extracted from a relational data base and written as formatted text files to be read by AERMET. These data consisted of 15-minute values of wind speed, wind direction, temperature, and turbulence (expressed as a standard deviation of the vertical component of wind direction fluctuations, sigma-elevation). Data values were extracted and written to the text file only if there were no associated quality flags; periods in which the data did not meet quality control criteria (i.e., flagged) were assigned a missing value code consistent with AERMET requirements. Quality assurance procedures for SRS meteorological data are described in Ref. 7. Output generated by AERMET during data processing were reviewed to ensure the specified format statements were reading the 15-minute data correctly and producing the appropriate hourly averages for input to AERMOD.

Values used by AERMET for roughness length, Bowen ratio, and albedo were determined from EPA's AERSURFACE algorithm. Input to the algorithm consisted of a USGS National Land Cover Data image for 1992 (NCLD92) which was then analyzed for the area surrounding the location of the Central Climatology tower. Monthly values of the three surface parameters were generated and imported into AERMET.

Building information was included in AERMOD for sources located in D-Area to account for downwash and re-circulation effects from buildings due to D-Area's proximity to the site boundary. The building data from D-Area were processed by the EPA utility BPIP-PRIME (Building Profile Input Program) to determine the directionally dependent building shape parameters needed for input to AERMOD. Although the A-Area sources are located less than one mile from the SRS boundary, release heights are sufficiently low that plume concentrations will reach ground level prior to the site boundary without the inclusion of downwash.

Results

Results of the calculations are summarized in Tables 1, 2, and 3 for toxic air pollutants (Standard 8), criteria pollutants (Standard 2), and pollutants applicable for Standard 7 modeling, respectively. Most of the model calculations were performed for a one year record of meteorological conditions (2005). If the calculations for the single year of meteorology resulted in concentration maxima more than 50 percent of the standard, calculations were performed for an additional four years (2002-2004, 2006). Results reported in the tables consist of the maximum estimated concentration over all receptors included in the simulation for each pollutant and averaging period.

Table 2 also includes values that define an existing SRS ambient air quality background for those pollutants for which air monitoring data are available. These background values are taken from data reported by SCDHEC for 2007 at the air monitoring station in closest proximity to SRS. The locations of these stations are noted in a footnote to the table. A sum of the ambient background and the model-estimated maximum concentration resulting from SRS emissions is then reported in Table 2 as a conservative baseline air quality from which to assess compliance with the SCDHEC ambient standards (Ref. 8).

The estimated concentration maxima for the Standard 8 pollutants and many of the Standard 2 pollutants are generally much less than 25 percent of their applicable ambient standard. Baseline concentrations for particulates (total and 10 micron particulates) generally range from 54 to 74 percent of the applicable standard and 18 to 59 percent for sulfur dioxide (SOx), depending on the averaging time. Particulate matter of 2.5 microns were excluded from Revision 1 of Title V modeling due to DHEC's PM10 Surrogate Policy (Ref. 9) which states demonstrating compliance with PM10 equates to compliance with PM2.5. Lead concentrations yielded maximum quarterly concentrations of 75 percent of the applicable standard.

Established maximum allowable increases for the Standard 7 Class II pollutants are less than 10 percent for sulfer dioxide, less than 20 percent for particulates less than 10 microns, and less than 30 percent for nitrogen dioxide.

References

1. U.S. Environmental Protection Agency, *State Operating Permit Programs*, 40 Code of Federal Regulations, Part 70.

2. South Carolina Department of Health and Environmental Control, Air Pollution Regulation 62.5, *Air Pollution Control Standards*, October 23, 2009.

3. U.S. Environmental Protection Agency, *Guideline on Air Quality Models*, 40 Code of Federal Regulations, Part 51, Appendix W.

4. U. S. Environmental Protection Agency, *AERMOD: Description of Model Formulation*, EPA-454/R-03-004 (2004).

5. U. S. Environmental Protection Agency, *User's Guide for the AMS/EPA Regulatory Model – AERMOD and Addendum*, EPA-454/B-03-001 (2004).

6. U. S. Environmental Protection Agency, *User's Guide for the AERMOD Meteorological Preprocessor (AERMET) and Addendum*, EPA-454/B03-002 (2004).

7. Westinghouse Savannah River Company, *Quality Assurance of Meteorological Data*, Procedure Manual 15.3, Meteorological Monitoring Procedures, NTSP T-113 (2002).

8. South Carolina Department of Health and Environmental Control, *Air Quality Modeling Guidelines* (2001).

9. Quina, G., PM 2.5 Modeling, personal communication (11/5/2010).

CC: C.H. Hunter, 773-A
T.A. Faugl, 705-3C

Table 1. Toxic Air Pollutants Regulated by South Carolina Air Pollution Control Regulation 62.5, Standard 8. The SRS concentrations represent the model-estimated maximum 24-hour average on or beyond the Site boundary for a one year record of meteorological conditions (2005).

Chemical Name	CAS No.	No. of Sources	SRS Maximum Concentration ($\mu g/m^3$)	SCDHEC Standard ($\mu g/m^3$)	Fraction of Standard
Acetonitrile	75-05-8	1	0.0001	1750.0	<0.01
Ammonium Chloride	12125-02-9	1	0.004	250.0	<0.01
Aniline	62-53-3	1	0.0001	50.0	<0.01
Antimony Compounds	----	2	0.00	2.5	0.0
Arsenic	7440-38-2	6	0.00001	1.0	<0.01
Benzene	71-43-2	42	0.36	150	<0.01
Beryllium	7440-41-7	6	0.00	0.01	0.0
Biphenyl	92-52-4	21	0.00	6.0	0.0
Cadmium	7440-43-9	5	0.00	0.25	0.0
Carbon Tetrachloride	56-23-5	20	15.6	150.0	10
Chlorine	7782-50-5	2	0.007	75.0	<0.01
Chlorobenzene	108-90-7	1	0.0001	1725.0	<0.01
Chloroform	67-66-3	7	65.7	250.0	26
Chromium (+6) Compounds	----	3	0.02	2.5	0.01
Cobalt Compounds	----	1	0.00	0.25	0.0
Cresols	1319-77-3	21	0.0001	220.0	<0.01
Cumene	98-82-8	20	0.0001	9.0	<0.01
2,4-Dinitrotoluene	121-14-2	1	0.0001	1.5	<0.01
1,4-Dioxane	123-91-1	1	0.01	450.0	<0.01
Ethyl Benzene	100-41-4	19	0.13	4350.0	<0.01
Ethylidene Dichloride	107-06-2	1	0.002	200.0	<0.01
Formaldehyde	50-00-0	1	0.0001	15.0	<0.01
Formic Acid	64-18-6	8	0.002	225.0	<0.01
Hexane	110-54-3	26	0.03	900.0	<0.01
Hydrazine	302-01-2	1	0.0001	0.50	<0.01
Hydrochloric Acid	7647-01-0	2	0.0001	175.0	<0.01
Manganese Compounds	----	3	0.03	25.0	<0.01
Mercury	7439-97-6	66	0.007	0.25	2.8
Methanol	67-56-1	1	0.0001	1310.0	<0.01
Methyl Chloroform	71-55-6	4	65.9	9550.0	0.69
Methyl Ethyl Ketone	78-93-3	2	0.0001	14750.0	<0.01
Methyl Isobutyl Ketone	108-10-1	1	0.0001	2050.0	<0.01

Chemical Name	CAS No.	No. of Sources	SRS Maximum Concentration (µg/m³)	SCDHEC Standard (µg/m³)	Fraction of Standard
Methyl Methacrylate	80-62-6	1	0.0001	10250.0	<0.01
Methylene Chloride	75-09-2	11	0.19	8750.0	<0.01
Methyl-t-Butyl Ether	1634-04-4	6	1.01	N/A	----
Naphthalene	91-20-3	21	0.0001	1250.0	<0.01
Nickel Oxide	1313-99-1	1	0.00	5.0	0.0
Nickel	7440-02-0	9	0.03	0.5	6.0
Nitric Acid	7697-37-2	15	5.93	125.0	4.7
Oxalic Acid	144-62-7	8	0.03	10.0	<0.01
Phenol	108-50-2	21	0.00	190.0	0.00
Phosphorus	7723-14-0	1	0.0001	0.5	<0.01
Polychlorinated Biphenyls	----	1	0.003	2.5	<0.01
Selenium Compounds	----	1	0.00	1.0	0.0
Sodium Hydroxide	1310-73-2	24	0.14	50.0	0.28
Styrene	100-42-5	20	0.00003	5325.0	<0.01
Sulfuric Acid	7664-93-9	1	0.0001	10.0	<0.01
Tetrachloroethane	79-34-5	1	0.0001	3350.0	<0.01
Tetrachloroethylene	127-18-4	48	1976.2 (h)	3350.0	59
Toluene	108-88-3	39	10.5	2000.0	0.53
Trichloroethylene	79-01-6	40	469.9	6750.0	7.0
2,2,4-Trimethylpentane	540-84-1	24	0.0004	8750.0	<0.01
Vinyl Chloride	75-01-4	3	0.07	50.0	0.14
Vinylidene Chloride	75-35-4	5	10.5	99.0	11
Xylene	1330-20-7	36	1.4	4350.0	<0.01
m-Xylene	108-38-3	4	0.13	4350.0	<0.01
o-Xylene	95-47-6	4	0.4	4350.0	<0.01
p-Xylene	106-42-3	4	0.18	4350.0	<0.01

Table 2. Air Pollutants Regulated by South Carolina Air Pollution Control Regulation 62.5, Standard 2. The SRS concentrations represent model estimated maximum on or beyond the Site boundary for a one year record of meteorological conditions (2005), unless noted otherwise.

Pollutant	No. of Sources	Averaging Time	SRS Conc. Maximum ($\mu g/m^3$)	Ambient Background ($\mu g/m^3$)[1]	Cumulative Air Impact ($\mu g/m^3$)	SCDHEC Standard ($\mu g/m^3$)	Percent of Standard
Sulfur Dioxide (as SOx)	15	3 Hours	723.0 (a)	39.3	762.3	1300 (b)	59
		24 Hours	155.1 (a)	18.3	173.4	365 (b)	48
		Annual	10.2	3.9	14.1	80	18
Total Particulates	71	Annual	28.1 (c)	25	53.1	75	71
Particulates <10 microns	70	24 Hours	50.7 (a)	61	111.7	150 (b)	74
		Annual	5.2 (c)	21.7	26.9	50	54
Carbon Monoxide	14	1 Hour	1118.2 (h)	3550	4668.2	40000	12
		8 Hours	292.0 (c)	2863	3155.0	10000	32
Gaseous Fluorides (HF)	3	12 Hours	0.35	---	---	3.7	9.5
		24 Hours	0.23	---	---	2.9	7.9
		1 Week	0.21	---	---	1.6	13
		1 Month	0.03	---	---	0.8	3.8
Nitrogen Dioxide (as NOx)	17	Annual	42.1 (h)	6.6	48.7	100	49
Lead	20	Quarterly	0.11 (h)	0.002	0.112	0.15	75

Table 2, Continued.

(a) Estimated high, second high over the five years 2002-2006.
(b) Concentration not to be exceeded more than once per year.
(c) Maximum of estimated annual averages for each of the five years 2002-2006
(d) Average 98th percentile concentration (high, eighth high) for each of the five years 2002-2006
(e) A three-year average of concentrations not exceeded 98 percent of the time each year.
(f) Estimated annual average for the five years 2002-2006
(g) Concentration not be exceeded over a three year period
(h) Maximum value for the five year period 2002-2006.

[1] Reported values based on SCDHEC air monitoring summary data for 2007, as follows:

Sulfur Dioxide - Barnwell CMS (Barnwell Co.)
Total Particulates – Parklane (Richland Co.)
Particulates <10m – Jackson (Aiken Co.)
Particulates <2.5m – Trenton (Edgefield Co.)
Carbon Monoxide – State Hospital (Richland Co.)
Nitrogen Dioxide – Jackson (Aiken Co.)
Lead - Parklane (Richland Co.)

Table 3. Air Pollutants Regulated by South Carolina Air Pollution Control Regulation 62.5, Standard 7. The SRS concentrations represent model estimated maximum on or beyond the Site boundary for a five year record of meteorological conditions (2002-2006). Increase is based on an established baseline as of April 2001. Source modeled is from the D-Area mobile diesel generator pool.

Pollutant	**No. of Sources**	**Averaging Time**	**SRS Modeled Increase ($\mu g/m^3$)**	**SCDHEC Max. Allowable Increase ($\mu g/m^3$)**	**Percent of Max. Allowable Increase**
Sulfur Dioxide	1	3 Hours	47.1	512	9.2
		24 Hours	8.4	91	9.2
		Annual	0.24	20	1.2
Particulates <10 microns	1	24 Hours	8.9	30	30
		Annual	0.26	17	1.5
Nitrogen Dioxide	1	Annual	3.7	25	15