FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) OFFICE OF AIR MANAGEMENT

Newport Chemical Depot (NECD)
Indiana State Road 63
Newport, Indiana 47966-0121

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the facilities listed in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 and contains the conditions and provisions specified in 326 IAC 2-8 and 40 CFR Part 70.6 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments) and IC 13-15 and IC 13-17 (prior to July 1, 1996, IC 13-1-1-4 and IC 13-7-10).

Operation Permit No.: F165-5470-00003	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date: December 11, 1996

First Significant Modification: SMF165-9701	Pages Affected: 4-7, 25a, 30a
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date:

SECTION A SOURCE SUMMARY

A.1 General Information

The Permittee owns and operates the operations necessary for maintaining a National Defense - Chemical Stockpile Storage site consisting mainly of internal combustion engines for electrical power generation.

Responsible Official:	Major William S. Schaff, Jr.
Source Address:	Indiana State Road 63, Newport, Indiana, 47966-0121
Mailing Address:	P.O. Box 121, Newport, Indiana, 47966-0121
SIC Code:	9711
County Location:	Vermillion
County Status:	Attainment for all criteria pollutants
Source Status:	Synthetic Minor Source, FESOP Program

A.2 Emission Units and Pollution Control Summary

The stationary source consists of the following emission units and pollution control devices:

(a) thirteen (13) non-emergency type generators:

(1) four (4) diesel generators individually rated at 6 kilowatts (kW), each exhausting at one (1) stack identified as S/V 16, 17, 18, and 19;

(2) one (1) diesel generator rated at 155 kW, exhausting at one (1) stack identified as S/V 20;

(3) one (1) fire pump engine rated at 164.1 kW, exhausting at one (1) stack identified as S/V 27;

(4) one (1) gasoline generator rated at 3.5 kW, exhausting at one (1) stack identified as S/V 28;

(5) one (1) gasoline generator rated at 4 kW, exhausting at one (1) stack identified as S/V 29;

(6) one (1) gasoline generator rated at 5 kW, exhausting at one (1) stack identified as S/V 32;

(7) one (1) gasoline generator rated at 7.5 kW, exhausting at one (1) stack identified as S/V 33;

(8) one (1) propane generator rated at 35 kW, exhausting at one (1) stack identified as S/V 57;

(9) one (1) gasoline generator rated at 7.5 kW, exhausting at one (1) stack identified as S/V 58; and

(10) one (1) gasoline generator rated at 7.5 kW, exhausting at one (1) stack identified as S/V 59;

(b) twelve (12) emergency type generators:

(1) one (1) diesel generator rated at 250 kW, exhausting at one (1) stack identified as S/V 21;

(2) one (1) diesel generator rated at 250 kW, exhausting at one (1) stack identified as S/V 22;

(3) one (1) diesel generator rated at 250 kW, exhausting at one (1) stack identified as S/V 23;

(4) one (1) diesel generator rated at 250 kW, exhausting at one (1) stack identified as S/V 24;

(5) one (1) diesel generator rated at 255 kW, exhausting at one (1) stack identified as S/V 25;

(6) two (2) gasoline generators individually rated at 4 kW, each exhausting at one (1) stack identified as S/V 30 and 34;

(7) one (1) gasoline generator rated at 50 kW, exhausting at one (1) stack identified as S/V 36;

(8) one (1) propane generator rated at 11 kW, exhausting at one (1) stack identified as S/V 37;

(9) two (2) natural gas generators individually rated at 125 kW, each exhausting at one (1) stack identified as S/V 55 and S/V 56; and

(10) one (1) 941 PDS trailer rated at 25 kW, exhausting at one (1) stack identified as S/V 60;

(c) one (1) TML wastewater incinerator rated at 500 pounds per hour and identified as EU 9, exhausting at one (1) stack identified as S/V 51**;**

(d) Three (1) diesel-fired generators, identified as 63, 64 and 65, each with maximum heat input capacity of 1.0 million British thermal units per hour (mmBtu/hr), each exhausting to one (1) stack (63, 64, and 65);

(e) One (1) diesel-fired air compressor, identified as 66, with maximum heat input capacity of 1.0 million British thermal units per hour (mmBtu/hr), exhausting to one (1) stack (66);

A.3 Insignificant Activities

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

(a) one (1) natural gas fired boiler identified as Building 7700 Boiler rated at 2.51 million (MM) British thermal units per hr and using #2 fuel oil as a backup, exhausting at one (1) stack;

(b) one (1) 1,000 gallon capacity diesel fuel underground storage tank (UST) identified as Tank #144, exhausting at one emission point;

(c) one (1) 550 gallon capacity diesel fuel UST identified as Tank #6178, exhausting at one

emission point;

(d) one (1) 275 gallon capacity No. 2 fuel oil above ground storage tank (AST) identified as Tank #412A, exhausting at one emission point;

(e) two (2) walk-in paint booths exhausting at two emission points;

(f) one (1) toxic monitoring lab (TML) with chemical usage, exhausting at one (1) stack;

(g) one (1) 255 gallon capacity diesel fuel AST identified as Tank 103, exhausting at one emission point;

(h) one (1) 550 gallon capacity diesel fuel UST identified as Tank 3005, exhausting at one emission point;

(i) one (1) 250 gallon capacity No.2 fuel oil AST identified as Tank 7703-2, exhausting at one emission point;

(j) one (1) 550 gallon capacity No. 2 fuel oil UST identified as Tank 7703-1, exhausting at one emission point;

(k) one (1) X-ray developer rated at 37,440 X-ray plates per year, exhausting at one (1) stack;

(l) five (5) cold cleaning degreasing units in Bldgs 716A & 717A, each building exhausting at one (1) stack respectively;

(m) one (1) 18,000 gallon capacity propane AST identified as Propane Tank at Propane Station;

(n) one (1) woodworking operation exhausting at one (1) emission point;

(o) one (1) mobil abrasive blaster rated at 107.1 pounds blast media;

(p) one (1) gasoline dispensing station with fuel dispensing of less than 1,300 gallons per day, exhausting at one emission point;

(q) one (1) 10,000 gallon capacity gasoline UST, exhausting at one emission point.

(r) additional miscellaneous insignificant activities as:

(1) boilers/heaters (excluding Building 7700);

(2) medical lab;

(3) wastewater treatment facility;

(4) combustion start-up;

(5) 10,000 gallon capacity diesel fuel storage tank;

(6) fire training activities;

(7) asbestos abatement projects;

(8) water treatment;

(9) toxic laundry;

(10) pesticides/herbicides;

(11) structural painting;

(12) welding;

(13) air conditioning & refrigeration units;

(14) fire suppression systems;

(15) road paving;

(16) fixed abrasive blaster;

(17) protective mask cleaning;

(18) weapons cleaning; and

(19) miscellaneous chemical usage; and

(s) miscellaneous fugitive activities:

(1) landfills ;

(2) small arms firing;

(3) storage piles;

(4) road dust; and

(5) prairie burns, stated as up to 70 acres per year.

(t) One (1) diesel storage tank, identified as Diesel Tank #1, with maximum storage capacity of 500 gallons; and

(u) One (1) oxyacetylene welding station, with maximum capacity of 32.1 pounds of electrodes per hour.

A.4 FESOP Applicability [326 IAC 2-8-2]
This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) for a Federally Enforceable State Operating Permit (FESOP).

SECTION D.4 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]
(d) Three (1) diesel-fired generators, identified as 63, 64 and 65, each with maximum heat input capacity of 1.0 million British thermal units per hour (mmBtu/hr), each exhausting to one (1) stack (63, 64, and 65);
(e) One (1) diesel-fired air compressor, identified as 66, with maximum heat input capacity of 1.0 million British thermal units per hour (mmBtu/hr), exhausting to one (1) stack (66);
(Insignificant) One (1) oxyacetylene welding station, with maximum capacity of 32.1 pounds of electrodes per hour.

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.4.1 Oxides of Nitrogen (NOx) [326 IAC 2-8-4]
Pursuant to 326 IAC 2-8-4 (FESOP), the three (3) diesel-fired generators and one (1) diesel-fired air compressor shall each be limited to 3,120 hours of operation each year. This is equivalent to 27.5 tons NOx per year. Compliance with this limit makes 326 IAC 2-7 (Part 70) not applicable.

D.4.2 Particulate Matter [326 IAC 6-3-2(c)]
Pursuant to 326 IAC 6-3-2(c), the Particulate Matter (PM) from the one (1) oxyacetylene welding station shall be limited to 0.25 pounds as established as E in the following formula:

Interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and P = process weight rate in tons per hour

Compliance Determination Requirements

D.4.3 Testing Requirements [326 IAC 2-8-5(a)(1),(4)]
The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the Oxides of Nitrogen (NOx) or Particulate Matter (PM) limits specified in Conditions D.4.1 and D.4.2 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.4.4 Record Keeping Requirements
To document compliance with Condition D.4.1, the Permittee shall maintain monthly records of hours of operation of the three (3) diesel-fired generators and the one (1) diesel-fired air compressor.

D.4.5 Reporting Requirements
A quarterly summary of the information to document compliance with Condition D.4.1 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION

FESOP Quarterly Report

Source Name: Newport Chemical Depot
Source Address: Indiana State Road 63, Newport, Indiana 47966-0121
Mailing Address: P.O. Box 121, Newport, Indiana 47966-0121
FESOP No.: F165-5470-00003
Facility: Three (3) diesel-fired generators and one (1) diesel-fired air compressor
Parameter: Oxides of Nitrogen (NOx)
Limit: 3,120 hours of operation for each generator or compressor, equivalent to 27.5 tons NOx per year

YEAR: _____

Month	Equipment	Column 2	Column 3	Column 2 + Column 3
		Hours of Operation This Month	Hours of Operation Previous 11 Months	Hours of Operation 12 Month Total
	Generator (63)			
	Generator (64)			
	Generator (65)			
	Air Compressor (66)			
	Generator (63)			
	Generator (64)			
	Generator (65)			
	Air Compressor (66)			
	Generator (63)			
	Generator (64)			
	Generator (65)			
	Air Compressor (66)			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

Indiana Department of Environmental Management
Office of Air Management

Technical Support Document for the Significant Modification to the Federally Enforceable State Operating Permit (FESOP) and Enhanced New Source Review (ENSR)

Source Name:	Newport Chemical Depot
Source Location:	Indiana State Road 63, Newport, Indiana 47966
County:	Vermillion
SIC Code:	9711
Significant Modification No.:	SMF165-9701-00003
Operation Permit No.:	F165-5470-00003
Permit Reviewer:	Catherine Moore

History

The Federally Enforceable State Operating Permit (FESOP) was issued on December 11, 1996. On April 22, 1998, Newport Chemical Depot filed an Amendment requesting certain changes to the permit. The Amendment requested to add the following equipment:

(a) Three (1) diesel-fired generators, identified as 63, 64 and 65, each with maximum heat input capacity of 1.0 million British thermal units per hour (mmBtu/hr), each exhausting to one (1) stack (63, 64, and 65);

(b) One (1) diesel-fired air compressor, identified as 66, with maximum heat input capacity of 1.0 million British thermal units per hour (mmBtu/hr), exhausting to one (1) stack (66);

(c) One (1) diesel storage tank, identified as Diesel Tank #1, with maximum storage capacity of 500 gallons; and

(d) One (1) oxyacetylene welding station, with maximum capacity of 32.1 pounds of electrodes per hour.

Emissions Calculations

See Appendix A of this document for detailed emissions calculations (five (5) pages).

Potential Emissions

Pollutant	Three (3) generators and one (1) air compressor	One (1) diesel Storage tank	One (1) oxyacetylene welding station	**TOTAL** (tons/year)
PM	5.4	0.0	3.6	9.0
PM_{10}	5.4	0.0	2.6	8.0
SO_2	5.1	0.0	0.0	5.1

NOx	77.3	0.0	0.0	77.3
VOC	6.3	4.6×10^{-4}	0.0	6.3
CO	16.6	0.0	0.0	16.6
HAP (Manganese)	0.0	0.0	1.4	1.4

(a) The potential emissions before control of NOx are greater than twenty-five (25) tons per year. Therefore, pursuant to 326 IAC IAC 2-8-12, a Significant Modification to the Federally Enforceable State Operating Permit (FESOP) is required.

Federal / State Rule Applicability

(a) The one (1) diesel fuel storage tank is not subject to the requirements of 40 CFR 60.110b (Subpart Kb), because the storage capacity is less than forty (40) cubic meters.

(b) The one (1) diesel fuel storage tank is not subject to the requirements of 326 IAC 8-9 (Volatile Organic Liquid Storage Tanks) because this source is not located in any of the counties listed in this rule.

(c) The one (1) oxyacetylene welding station is subject to the requirements of 326 IAC 6-3-2(c) (Process Operations) because it has a potential to emit Particulate Matter (PM). Pursuant to 326 IAC 6-3-2(c), the Particulate Matter (PM) emissions from the one (1) oxyacetylene welding station shall be limited to 0.25 pounds per hour as established in the following equation:

Interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

For the one (1) oxyacetylene welding station:
P = 32.1 pounds per hour = 0.01605 tons per hour
$E = 4.10\ (0.01605)^{0.67}$ = 0.25 pounds Particulate Matter (PM) per hour

(d) Since this source has been issued a Federally Enforceable State Operating Permit (FESOP), the source must comply with the limited potential to emit NOx from the entire source of ninety-nine (99) tons per year. The existing source potential to emit NOx is 51.72 tons per year. Therefore, the three (3) diesel-fired generators and one (1) diesel-fired air compressor shall have a limited potential to emit of 47.28 tons NOx per year. The hours of operation of the three (3) diesel-fired generators and one (1) diesel-fired air compressor shall be limited to 5,357 hours per year. However, the source has requested to limit the hours of operation for each generator and air compressor to only 3,120 hours per year. This is equivalent to 27.5 tons NOx per year. The new potential to emit NOx from the entire source is 79.22 tons per year.

Proposed Changes to Federally Enforceable State Operating Permit:

The following changes were agreed to and made as the First Significant Modification for this source (~~strikeout~~ added to show what was deleted and **bold** added to show what was added):

1. Condition A.2 "Emission Units and Pollution Control Summary" has been changed to be as follows to list the new equipment:

A.2 Emission Units and Pollution Control Summary

The stationary source consists of the following emission units and pollution control devices:

(a) thirteen (13) non-emergency type generators:

(1) four (4) diesel generators individually rated at 6 kilowatts (kW), each exhausting at one (1) stack identified as S/V 16, 17, 18, and 19;

(2) one (1) diesel generator rated at 155 kW, exhausting at one (1) stack identified as S/V 20;

(3) one (1) fire pump engine rated at 164.1 kW, exhausting at one (1) stack identified as S/V 27;

(4) one (1) gasoline generator rated at 3.5 kW, exhausting at one (1) stack identified as S/V 28;

(5) one (1) gasoline generator rated at 4 kW, exhausting at one (1) stack identified as S/V 29;

(6) one (1) gasoline generator rated at 5 kW, exhausting at one (1) stack identified as S/V 32;

(7) one (1) gasoline generator rated at 7.5 kW, exhausting at one (1) stack identified as S/V 33;

(8) one (1) propane generator rated at 35 kW, exhausting at one (1) stack identified as S/V 57;

(9) one (1) gasoline generator rated at 7.5 kW, exhausting at one (1) stack identified as S/V 58; and

(10) one (1) gasoline generator rated at 7.5 kW, exhausting at one (1) stack identified as S/V 59;

(b) twelve (12) emergency type generators:

(1) one (1) diesel generator rated at 250 kW, exhausting at one (1) stack identified as S/V 21;

(2) one (1) diesel generator rated at 250 kW, exhausting at one (1) stack identified as S/V 22;

(3) one (1) diesel generator rated at 250 kW, exhausting at one (1) stack identified as S/V 23;

(4) one (1) diesel generator rated at 250 kW, exhausting at one (1) stack identified

as S/V 24;

(5) one (1) diesel generator rated at 255 kW, exhausting at one (1) stack identified as S/V 25;

(6) two (2) gasoline generators individually rated at 4 kW, each exhausting at one (1) stack identified as S/V 30 and 34;

(7) one (1) gasoline generator rated at 50 kW, exhausting at one (1) stack identified as S/V 36;

(8) one (1) propane generator rated at 11 kW, exhausting at one (1) stack identified as S/V 37;

(9) two (2) natural gas generators individually rated at 125 kW, each exhausting at one (1) stack identified as S/V 55 and S/V 56; and

(10) one (1) 941 PDS trailer rated at 25 kW, exhausting at one (1) stack identified as S/V 60; ~~and~~

(c) one (1) TML wastewater incinerator rated at 500 pounds per hour and identified as EU 9, exhausting at one (1) stack identified as S/V 51**;**

(d) Three (1) diesel-fired generators, identified as 63, 64 and 65, each with maximum heat input capacity of 1.0 million British thermal units per hour (mmBtu/hr), each exhausting to one (1) stack (63, 64, and 65);

(e) One (1) diesel-fired air compressor, identified as 66, with maximum heat input capacity of 1.0 million British thermal units per hour (mmBtu/hr), exhausting to one (1) stack (66);

2. Condition A.3 “Insignificant Activities” has been changed to be as follows:

A.3 Insignificant Activities

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1~~(20)~~**(21)**:

(a) one (1) natural gas fired boiler identified as Building 7700 Boiler rated at 2.51 million (MM) British thermal units per hr and using #2 fuel oil as a backup, exhausting at one (1) stack;

(b) one (1) 1,000 gallon capacity diesel fuel underground storage tank (UST) identified as Tank #144, exhausting at one emission point;

(c) one (1) 550 gallon capacity diesel fuel UST identified as Tank #6178, exhausting at one emission point;

(d) one (1) 275 gallon capacity No. 2 fuel oil above ground storage tank (AST) identified as Tank #412A, exhausting at one emission point;

(e) two (2) walk-in paint booths exhausting at two emission points;

(f) one (1) toxic monitoring lab (TML) with chemical usage, exhausting at one (1) stack;

(g) one (1) 255 gallon capacity diesel fuel AST identified as Tank 103, exhausting at one emission point;

(h) one (1) 550 gallon capacity diesel fuel UST identified as Tank 3005, exhausting at one emission point;

(i) one (1) 250 gallon capacity No.2 fuel oil AST identified as Tank 7703-2, exhausting at one emission point;

(j) one (1) 550 gallon capacity No. 2 fuel oil UST identified as Tank 7703-1, exhausting at one emission point;

(k) one (1) X-ray developer rated at 37,440 X-ray plates per year, exhausting at one (1) stack;

(l) five (5) cold cleaning degreasing units in Bldgs 716A & 717A, each building exhausting at one (1) stack respectively;

(m) one (1) 18,000 gallon capacity propane AST identified as Propane Tank at Propane Station;

(n) one (1) woodworking operation exhausting at one (1) emission point;

(o) one (1) mobil abrasive blaster rated at 107.1 pounds blast media;

(p) one (1) gasoline dispensing station with fuel dispensing of less than 1,300 gallons per day, exhausting at one emission point;

(q) one (1) 10,000 gallon capacity gasoline UST, exhausting at one emission point.

(r) additional miscellaneous insignificant activities as:

(1) boilers/heaters (excluding Building 7700);

(2) medical lab;

(3) wastewater treatment facility;

(4) combustion start-up;

(5) 10,000 gallon capacity diesel fuel storage tank;

(6) fire training activities;

(7) asbestos abatement projects;

(8) water treatment;

(9) toxic laundry;

(10) pesticides/herbicides;

(11) structural painting;

(12) welding;

(13) air conditioning & refrigeration units;

(14) fire suppression systems;

(15) road paving;

(16) fixed abrasive blaster;

(17) protective mask cleaning;

(18) weapons cleaning; and

(19) miscellaneous chemical usage; and

(s) miscellaneous fugitive activities:

(1) landfills ;

(2) small arms firing;

(3) storage piles;

(4) road dust; and

(5) prairie burns, stated as up to 70 acres per year.

(t) One (1) diesel storage tank, identified as Diesel Tank #1, with maximum storage capacity of 500 gallons; and

(u) One (1) oxyacetylene welding station, with maximum capacity of 32.1 pounds of electrodes per hour.

3. Section D.4 “FACILITY OPERATION CONDITIONS” has been added to the permit as follows to list the requirements for the new equipment:

SECTION D.4 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)] (d) Three (1) diesel-fired generators, identified as 63, 64 and 65, each with maximum heat input capacity of 1.0 million British thermal units per hour (mmBtu/hr), each exhausting to one (1) stack (63, 64, and 65); (e) One (1) diesel-fired air compressor, identified as 66, with maximum heat input capacity of 1.0 million British thermal units per hour (mmBtu/hr), exhausting to one (1) stack (66); and (Insignificant) One (1) oxyacetylene welding station, with maximum capacity of 32.1 pounds of electrodes per hour.

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.4.1 Oxides of Nitrogen (NOx) [326 IAC 2-8-4]
Pursuant to 326 IAC 2-8-4 (FESOP), the three (3) diesel-fired generators and one (1) diesel-fired air compressor shall each be limited to 3,120 hours of operation each year. This is equivalent to 27.5 tons NOx per year. Compliance with this limit makes 326 IAC 2-7 (Part 70) not applicable.

D.4.2 Particulate Matter [326 IAC 6-3-2(c)]
Pursuant to 326 IAC 6-3-2(c), the Particulate Matter (PM) from the one (1) oxyacetylene welding station shall be limited to 0.25 pounds as established as E in the following formula:

Interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

Compliance Determination Requirements

D.4.3 Testing Requirements [326 IAC 2-8-5(a)(1),(4)]
The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the Oxides of Nitrogen (NOx) or Particulate Matter (PM) limits specified in Conditions D.4.1 and D.4.2 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.4.4 Record Keeping Requirements
To document compliance with Condition D.4.1, the Permittee shall maintain monthly records of hours of operation of the three (3) diesel-fired generators and the one (1) diesel-fired air compressor.

D.4.5 Reporting Requirements
A quarterly summary of the information to document compliance with Condition D.4.1 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

4. The following quarterly report has been added to the permit as follows to record the hours of operation of the three (3) diesel-fired generators and the one (1) diesel-fired air compressor.

FESOP Quarterly Report

Source Name: Newport Chemical Depot
Source Address: Indiana State Road 63, Newport, Indiana 47966-0121
Mailing Address: P.O. Box 121, Newport, Indiana 47966-0121
FESOP No.: F165-5470-00003
Facility: Three (3) diesel-fired generators and one (1) diesel-fired air compressor
Parameter: Oxides of Nitrogen (NOx)
Limit: 3,120 hours of operation for each generator or compressor, equivalent to 27.5 tons of NOx per year.

YEAR: _____

Month	Equipment	Column 2	Column 3	Column 2 + Column 3
		Hours of Operation This Month	Hours of Operation Previous 11 Months	Hours of Operation 12 Month Total
	Generator (63)			
	Generator (64)			
	Generator (65)			
	Air Compressor (66)			
	Generator (63)			
	Generator (64)			
	Generator (65)			
	Air Compressor (66)			
	Generator (63)			
	Generator (64)			
	Generator (65)			
	Air Compressor (66)			

Appendix A: Emission Calculations
Internal Combustion Engines - Diesel Fuel
Turbine (>250 and <600 HP)
Reciprocating

Company Name: Newport Chemical Depot
City, Indiana: Indiana State Road 63, Newport, Indiana 47966
CP#: 165-9701
Plt ID: 165-00003
Reviewer: Catherine Moore
Date: August 7, 1998

A. Emissions calculated based on heat input capacity (MMBtu/hr)

Heat Input Capacity
MM Btu/hr

4.0

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/MMBtu	0.31	0.31	0.29	4.41	0.4	0.95
Potential Emission in tons/yr	5.4	5.4	5.1	77.3	6.3	16.6

B. Emissions calculated based on output rating (hp)

Heat Input Capacity
Horsepower (hp)

536.0

Potential Throughput
hp-hr/yr

4695360.0

	Pollutant					
	PM	PM10	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
Potential Emission in tons/yr	5.2	5.2	4.8	72.8	5.9	15.7

Methodology

Potential Througput (hp-hr/yr) = hp * 8760 hr/yr

Emission Factors are from AP42 (Fifth edition, January 1995), Table 3.3-2

Emission (tons/yr) = [Heat input rate (MMBtu/hr) x Emission Factor (lb/MMBtu)] * 8760 hr/yr / (2,000 lb/ton)

Emission (tons/yr) = [Potential Throughput (hp-/hr/yr) x Emission Factor (lb/hp-hr)] / (2,000 lb/ton)

Appendix A: Emissions Calculations
From Welding Operations

Company Name: Newport Chemical Depot
Address City IN Zip: Indiana State Road 63, Newport, Indiana 47966
CP: 165-9701
Plt ID: 165-00003
Reviewer: Cathie Moore
Date: August 7, 1998

Type of Welding	Number of Units	Electrode Type	Maximum Wire Consumption per Unit (lbs/hr)	Emission Factors (lb pollutant/lb wire consumed)		Potential Emissions (tons/year)	
				PM	Manganese	PM	Manganese
Oxyacetylene Flame-Cutting	1.0	E 7018	32.100	0.0258	0.0103	3.627	1.448
			Total Potential Emissions (tons/yr):			**3.627**	**1.448**

METHODOLOGY

Emissions (tons/yr) = Number of Units * Maximum Electrode Consumption per Unit * Emission Factor (lb pollutant/lb electrode consumed) * 8760 (hrs/yr) * (1 ton/2000 lbs)
Emission Factors are from the SARA 313 Reporting Guide.