



**Thomas M. McDermott, Jr.**  
Mayor

## DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**CITY OF HAMMOND**

RONALD L. NOVAK

Director

September 6, 2006

Certified Mail: 9059 7189

Linda C. Childers, P. E.  
Environmental Manager  
Cargill, Inc.  
1100 Indianapolis Blvd.  
Hammond, IN 46320

Re: 089-22309-00203  
Significant Source Modification to  
Part 70 permit T089-7994-00203

Dear Ms. Childers:

Cargill, Inc. was issued Part 70 operating permit T089-7994-00203 on June 28, 2004 for a Wet Corn Milling facility. An application to modify the source was received on November 23, 2005. Pursuant to 326 IAC 2-7-10.5 the following emission unit is approved for construction at the source:

Natural gas-fired Package Boiler #1 (Unit ID 89-03-U), installed in 2006, with a maximum heat input capacity of 274 million Btu/hr, and exhausting to stack S89-03-U. Under NSPS 40 CFR 60 Subpart Db, Package Boiler #1 is a steam-generating unit with a heat input capacity greater than 100 million Btu/hr. Under NESHAP 40 CFR 63 Subpart DDDDD, Package Boiler #1 is an industrial boiler in the large gaseous fuel subcategory.

The following construction conditions are applicable to the proposed project:

General Construction Conditions

1. The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
3. Effective Date of the Permit  
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.
4. Pursuant to 326 IAC 2-1.1-9 and 326 IAC 2-7-10.5(i), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

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5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.
  6. Pursuant to 326 IAC 2-7-10.5(l) the emission units constructed under this approval shall not be placed into operation prior to revision of the source's Part 70 Operating Permit to incorporate the required operation conditions.

The proposed operating conditions applicable to these emission units are attached to this Source Modification approval. These proposed operating conditions shall be incorporated into the Part 70 operating permit as a significant permit modification in accordance with 326 IAC 2-7-12.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter call (219) 853-6306 and ask for Ronald Holder.

Sincerely,

Original signed by:

Ronald L. Novak, Director  
Hammond Department of Environmental Management  
Air Pollution Control Division

Enclosure

RH

cc: IDEM-OAQ, Mindy Hahn, Permits Administration

**PART 70  
SIGNIFICANT SOURCE MODIFICATION**

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY**

and

**HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
AIR POLLUTION CONTROL DIVISION**

**CARGILL, INC.  
1100 INDIANAPOLIS BOULEVARD  
HAMMOND, INDIANA 46320**

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this approval.

This approval is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Source Modification No.: 089-22309-00203	
Issued by: Original signed by:	Issuance Date: September 6, 2006
Ronald L. Novak, Director Hammond Department of Environmental Management	

## Significant Source Modification Modified D Section

### D.4 FACILITY OPERATION CONDITIONS - Utility Area

#### Emission Limitations and Standards [326 IAC 2-7-5(1)]

- D.4.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8]
- D.4.2 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8]
- D.4.3 Particulate Matter Limitations for Lake County [326 IAC 6.8]
- D.4.4 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-4-1.1]
- D.4.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

#### Compliance Determination Requirements

- D.4.6 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3-7-4]
- D.4.7 Operational Requirements [326 IAC 2-7-5(1)]

#### Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

- D.4.8 Visible Emissions Notations

#### Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

- D.4.9 Record Keeping Requirements
- D.4.10 Reporting Requirements

#### New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]

- D.4.11 General Provisions Relating to the NSPS for Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40b, Subpart Db] [326 IAC 12-1] [40 CFR 60, Subpart A]
- D.4.12 NSPS for Industrial-Commercial-Institutional Steam Generating Units Requirements [40 CFR 60.40b, Subpart Db] [326 IAC 12-1]
- D.4.13 One Time Deadlines Relating to NSPS 60.40b, Subpart Db

#### National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]

- D.4.14 General Provisions Relating to NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63.7565, Subpart DDDDD] [326 IAC 20-1] [40 CFR 63, Subpart A]
- D.4.15 NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters Requirements [40 CFR 63.7480, Subpart DDDDD]
- D.4.16 One Time Deadlines Relating to NESHAP 63.7480, Subpart DDDDD

**SECTION D.4**

**FACILITY OPERATION CONDITIONS**

**Facility Description [326 IAC 2-7-5(15)]:**

**IV. Utility Area**

The Utility area includes the following boilers used to supply steam for plant processes. A small rental, natural gas-fired boiler is used when all boilers are down for maintenance.

- (a) Boiler No. 1 (Unit ID 10-01-U), Combustion Engineering Model VP10R, installed in 1960, with a maximum rate of 96 MMBtu/hr heat input and natural gas-fired only. This unit exhausts through stack S10-01-U.
- (b) Boiler No. 2 (Unit ID 10-02-U), Erie City Model 19M, installed in 1966, with a maximum rate of 160 MMBtu/hr heat input and natural gas-fired only. This unit exhausts through stack S10-02-U.
- (c) Boiler No. 6 (Unit ID 10-03-U), Combustion Engineering Model VU-50, installed in 1956, with a maximum rate of 200 MMBtu/hr heat input and natural gas-fired with a fuel oil #6 secondary capability. This unit exhausts through stack S10-03-U.
- (d) Natural gas-fired Package Boiler #1 (Unit ID 89-03-U), installed in 2006, with a maximum heat input capacity of 274 million Btu/hr, and exhausting to stack S89-03-U. Under NSPS 40 CFR 60 Subpart Db, Package Boiler #1 is a steam-generating unit with a heat input capacity greater than 100 million Btu/hr. Under NESHAP 40 CFR 63 Subpart DDDDD, Package Boiler #1 is an industrial boiler in the large gaseous fuel subcategory.
- (e) Boiler No. 7 (Unit ID 10-04-U), Combustion Engineering Model VU, installed in 1944, with a maximum rate of 120 MMBtu/hr heat input and natural gas-fired with a fuel oil #6 secondary capability. This unit also exhausts through stack S10-03-U.
- (f) Boiler No. 8 (Unit ID 10-05-U), Combustion Engineering Model VU, installed in 1937, with a maximum rate of 120 MMBtu/hr heat input and natural gas-fired with a fuel oil #6 secondary capability. This unit exhausts through stack S10-05-U.
- (g) Boiler No. 10 (Unit ID 10-06-U), Combustion Engineering Model VU, installed in 1937, with a maximum rate of 120 MMBtu/hr heat input and natural gas-fired with a fuel oil #6 secondary capability. This unit also exhausts through stack S10-05-U.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

**Emission Limitations and Standards [326 IAC 2-7-5(1)]**

**D.4.1 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8]**

Pursuant to 326 IAC 6.8-6 (Lake County: Combustion Sources; Natural Gas), section 4, Boilers #1 and #2 shall fire natural gas only and emissions of particulate matter less than ten microns in diameter (PM10) shall be limited to the following.

Unit ID	PM10 Limit (lbs/MMBtu)	PM10 Limit (lbs/hr)
Boiler #1 (10-01-U)	0.003	0.288
Boiler #2 (10-02-U)	0.003	0.468

D.4.2 Particulate Matter less than 10 microns in diameter (PM10) [326 IAC 6.8]

Pursuant to 326 IAC 6.8-2 (Lake County PM10 Emission Requirements), section 8, emissions of particulate matter less than ten microns in diameter (PM10) shall be limited to the following.

Unit ID	PM10 Limit
Stack Serving Boilers 6 & 7	30.3 lbs/hr
Stack Serving Boilers 8 & 10	22.7 lbs/hr

D.4.3 Particulate Matter Limitations for Lake County [326 IAC 6.8]

Pursuant to 326 IAC 6.8-1-2(b)(3), Package Boiler #1 shall burn natural gas only and particulate matter emissions shall not exceed 0.01 grains per dry standard cubic foot (dscf).

D.4.4 Sulfur Dioxide (SO<sub>2</sub>) [326 IAC 7-4-1.1]

Pursuant to 326 IAC 7-4-1.1 (Lake County Sulfur Dioxide Emission Limitations) sulfur dioxide emissions are limited to 2.07 lbs/MMBtu (each) for boilers 6, 7, 8, and 10 (784 lbs/hr total).

D.4.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for each Utility Area Boiler.

**Compliance Determination Requirements**

D.4.6 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3-7-4]

Compliance with Condition D.4.4 shall be determined utilizing one of the following options:

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the sulfur dioxide emissions from boilers 6, 7, 8, and 10 do not exceed (2.07) pound per million Btu heat input (each) by:
  - (1) Providing vendor analysis of fuel delivered, if accompanied by a vendor certification, or;
  - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
    - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
    - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling.
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the boilers using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to any of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

#### D.4.7 Operational Requirements [326 IAC 2-7-5(1)]

- (a) Compliance with the particulate matter limitation in Condition D.4.3 for Package Boiler #1 shall be determined by the combustion of natural gas only.
- (b) Boilers #1, #2, #6, #7, #8, and #10 shall cease operation and be permanently decommissioned when Package Boiler #1 becomes operational.
- (c) Upon cessation of operation of Boilers #1, #2, #6, #7, #8, and #10, Conditions D.4.1, D.4.2, D.4.4, D.4.6, D.4.8, D.4.9, and D.4.10(a) will not be applicable.

#### **Compliance Monitoring Requirements**

##### D.4.8 Visible Emissions Notations

- (a) Visible emission notations of each boiler stack exhaust shall be performed once per day (when burning fuel oil) during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (a) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (b) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) A continuous opacity monitor may be used to perform the visible emission notations provided the calibration and maintenance procedures for the monitor have been approved by the IDEM-OAQ or the HDEM. A trained employee shall record whether emissions are normal or abnormal (when burning fuel oil).
- (c) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a deviation from this permit.

#### **Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

##### D.4.9 Record Keeping Requirements

- (a) In accordance with 326 IAC 7-4-1.1(c)(1)(B)(i) and in order to document compliance with Condition D.4.4, the Permittee shall maintain records of the following for each hour in which any boiler operates on fuel oil.
  - (1) Average sulfur content
  - (2) Fuel oil usage
  - (3) Boiler operating load
- (b) To document compliance with Condition D.4.8, the Permittee shall maintain records of the visible emission notations (while burning fuel oil) of the boiler stack exhausts.

- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.4.10 Reporting Requirements

- (a) In accordance with 326 IAC 7-2-1(c)(3) and 326 IAC 7-4-1.1(c)(1)(B)(ii), the Permittee shall submit a report to the department within thirty (30) days after the end of each calendar quarter. The report shall also contain the records required in Condition D.4.9 for Boilers 6, 7, 8, and 10, while burning fuel oil, including a calculation of the total sulfur dioxide emissions from all boilers for each hour.
- (b) The natural gas boiler certification 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 its equivalent, within thirty (30) days after the end of the calendar quarter being reported. The natural gas-fired boiler certification does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

#### **New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]**

##### D.4.11 General Provisions Relating to the NSPS for Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40b, Subpart Db] [326 IAC 12-1] [40 CFR 60, Subpart A]

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Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1-1 for Package Boiler #1 as specified in 40 CFR 60.40b, Subpart Db in accordance with the schedule in 40 CFR 60.40b, Subpart Db.

##### D.4.12 NSPS for Industrial-Commercial-Institutional Steam Generating Units Requirements [40 CFR 60.40b, Subpart Db] [326 IAC 12-1]

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Pursuant to 40 CFR 60.40b, Subpart Db, the Permittee shall comply with the provisions of 40 CFR 60.40b, Subpart Db, which are incorporated by reference as 326 IAC 12-1, for Package Boiler #1 as specified as follows:

#### **§ 60.40b Applicability and delegation of authority.**

- (a) The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 MW (100 million Btu/hour).
- (j) Any affected facility meeting the applicability requirements under paragraph (a) of this section and commencing construction, modification, or reconstruction after June 19, 1986 is not subject to Subpart D (Standards of Performance for Fossil-Fuel-Fired Steam Generators, §60.40).

#### **§ 60.44b Standard for nitrogen oxides.**

- (a) Except as provided under paragraphs (k) and (l) of this section, on and after the date on which the initial performance test is completed or is required to be completed under §60.8 of this part, whichever date comes first, no owner or operator of an affected facility that is subject to the provisions of this section and that combusts only coal, oil, or natural gas shall cause to be discharged into the atmosphere from that affected facility any gases that contain nitrogen oxides (expressed as NO<sub>2</sub>) in excess of the following emission limits:

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Fuel/Steam generating unit type	Nitrogen oxide emission limits ng/J(lb/million Btu) (expressed as NO2) Heat input
(1) Natural gas and distillate oil, except (4):	
(i) Low heat release rate.....	43 (0.10)

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(h) For purposes of paragraph (i) of this section, the nitrogen oxide standards under this section apply at all times including periods of startup, shutdown, or malfunction.

(i) Except as provided under paragraph (j) of this section, compliance with the emission limits under this section is determined on a 30-day rolling average basis.

**§ 60.46b Compliance and performance test methods and procedures for particulate matter and nitrogen oxides.**

(a) The particulate matter emission standards and opacity limits under §60.43b apply at all times except during periods of startup, shutdown, or malfunction. The nitrogen oxides emission standards under §60.44b apply at all times.

(c) Compliance with the nitrogen oxides emission standards under §60.44b shall be determined through performance testing under paragraph (e) or (f), or under paragraphs (g) and (h) of this section, as applicable.

(e) To determine compliance with the emission limits for nitrogen oxides required under §60.44b, the owner or operator of an affected facility shall conduct the performance test as required under §60.8 using the continuous system for monitoring nitrogen oxides under §60.48(b).

(1) For the initial compliance test, nitrogen oxides from the steam generating unit are monitored for 30 successive steam generating unit operating days and the 30-day average emission rate is used to determine compliance with the nitrogen oxides emission standards under §60.44b. The 30-day average emission rate is calculated as the average of all hourly emissions data recorded by the monitoring system during the 30-day test period.

**§ 60.48b Emission monitoring for particulate matter and nitrogen oxides.**

(b) Except as provided under paragraphs (g), (h), and (i) of this section, the owner or operator of an affected facility shall comply with either paragraphs (b)(1) or (b)(2) of this section.

(1) Install, calibrate, maintain, and operate a continuous monitoring system, and record the output of the system, for measuring nitrogen oxides emissions discharged to the atmosphere;

(c) The continuous monitoring systems required under paragraph (b) of this section shall be operated and data recorded during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.

(d) The 1-hour average nitrogen oxides emission rates measured by the continuous nitrogen oxides monitor required by paragraph (b) of this section and required under §60.13(h) shall be expressed in ng/J or lb/million Btu heat input and shall be used to calculate the average emission rates under §60.44b. The 1-hour averages shall be calculated using the data points required under §60.13(b). At least 2 data points must be used to calculate each 1-hour average.

(e) The procedures under §60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems.

(2) For affected facilities combusting coal, oil, or natural gas, the span value for nitrogen oxides is determined as follows:

Fuel	Span values for nitrogen oxides (PPM)
Natural gas.....	500

(f) When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.

**§ 60.49b Reporting and recordkeeping requirements.**

(a) The owner or operator of each affected facility shall submit notification of the date of initial startup, as provided by §60.7. This notification shall include:

(1) The design heat input capacity of the affected facility and identification of the fuels to be combusted in the affected facility,

(3) The annual capacity factor at which the owner or operator anticipates operating the facility based on all fuels fired and based on each individual fuel fired, and,

(b) The owner or operator of each affected facility subject to the sulfur dioxide, particulate matter, and/or nitrogen oxides emission limits under §§60.42b, 60.43b, and 60.44b shall submit to the Administrator the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in appendix B. The owner or operator of each affected facility described in §60.44b(j) or §60.44b(k) shall submit to the Administrator the maximum heat input capacity data from the demonstration of the maximum heat input capacity of the affected facility.

(d) The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.

(g) Except as provided under paragraph (p) of this section, the owner or operator of an affected facility subject to the nitrogen oxides standards under §60.44b shall maintain records of the following information for each steam generating unit operating day:

(1) Calendar date.

(2) The average hourly nitrogen oxides emission rates (expressed as NO<sub>2</sub>) (ng/J or lb/million Btu heat input) measured or predicted.

(3) The 30-day average nitrogen oxides emission rates (ng/J or lb/million Btu heat input) calculated at the end of each steam generating unit operating day from the measured or

predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days.

(4) Identification of the steam generating unit operating days when the calculated 30-day average nitrogen oxides emission rates are in excess of the nitrogen oxides emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken.

(5) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken.

(6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data.

(7) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted.

(8) Identification of the times when the pollutant concentration exceeded full span of the continuous monitoring system.

(9) Description of any modifications to the continuous monitoring system that could affect the ability of the continuous monitoring system to comply with Performance Specification 2 or 3.

(10) Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1.

(i) The owner or operator of any affected facility subject to the continuous monitoring requirements for nitrogen oxides under §60.48(b) shall submit reports containing the information recorded under paragraph (g) of this section.

(o) All records required under this section shall be maintained by the owner or operator of the affected facility for a period of 2 years following the date of such record.

(v) The owner or operator of an affected facility may submit electronic quarterly reports for SO<sub>2</sub> and/or NO<sub>x</sub> and/or opacity in lieu of submitting the written reports required under paragraphs (h), (i), (j), (k) or (l) of this section. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format.

(w) The reporting period for the reports required under this subpart is each 6 month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.

#### D.4.13 One Time Deadlines Relating to NSPS 60.40b, Subpart Db

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- (a) Pursuant to §60.46b(e), the Permittee must conduct the initial performance test for Package Boiler #1 no later than 180 days after the initial start-up.
- (b) Pursuant to §60.48b(e), the Permittee must install the NO<sub>x</sub> CEM prior to the performance test.

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## **National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements [326 IAC 2-7-5(1)]**

### **D.4.14 General Provisions Relating to NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63.7565, Subpart DDDDD] [326 IAC 20-1] [40 CFR 63, Subpart A]**

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Pursuant to 40 CFR 63.7565, the Permittee shall comply with the provisions of 40 CFR 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1 for Package Boiler #1 as specified in Table 10 of 40 CFR 63, Subpart DDDDD in accordance with the schedule in 40 CFR 63, Subpart DDDDD.

### **D.4.15 NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters Requirements [40 CFR 63.7480, Subpart DDDDD]**

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Pursuant to 40 CFR 63, Subpart DDDDD, the Permittee shall comply with the provisions of 40 CFR 63, Subpart DDDDD, for Package Boiler #1 as specified as follows:

#### **§ 63.7480 What is the purpose of this subpart?**

This subpart establishes national emission limits and work practice standards for hazardous air pollutants (HAP) emitted from industrial, commercial, and institutional boilers and process heaters. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limits and work practice standards.

#### **§ 63.7485 Am I subject to this subpart?**

You are subject to this subpart if you own or operate an industrial, commercial, or institutional boiler or process heater as defined in §63.7575 that is located at, or is part of, a major source of HAP as defined in §63.2 or §63.761 (40 CFR part 63, subpart HH, National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities), except as specified in §63.7491.

#### **§ 63.7490 What is the affected source of this subpart?**

(a) This subpart applies to new, reconstructed, or existing affected sources as described in paragraphs (a)(1) and (2) of this section.

(2) The affected source of this subpart is each new or reconstructed industrial, commercial, or institutional boiler or process heater located at a major source as defined in §63.7575.

(b) A boiler or process heater is new if you commence construction of the boiler or process heater after January 13, 2003, and you meet the applicability criteria at the time you commence construction.

#### **§ 63.7495 When do I have to comply with this subpart?**

(a) If you have a new or reconstructed boiler or process heater, you must comply with this subpart by November 12, 2004 or upon startup of your boiler or process heater, whichever is later.

(d) You must meet the notification requirements in §63.7545 according to the schedule in §63.7545 and in subpart A of this part. Some of the notifications must be submitted before you are required to comply with the emission limits and work practice standards in this subpart.

**§ 63.7499 What are the subcategories of boilers and process heaters?**

The subcategories of boilers and process heaters are large solid fuel, limited use solid fuel, small solid fuel, large liquid fuel, limited use liquid fuel, small liquid fuel, large gaseous fuel, limited use gaseous fuel, and small gaseous fuel. Each subcategory is defined in §63.7575.

**§ 63.7500 What emission limits, work practice standards, and operating limits must I meet?**

(a) You must meet the requirements in paragraphs (a)(1) and (2) of this section.

(1) You must meet each emission limit and work practice standard in Table 1 to this subpart that applies to your boiler or process heater, except as provided under §63.7507.

(b) As provided in §63.6(g), EPA may approve use of an alternative to the work practice standards in this section.

**§ 63.7505 What are my general requirements for complying with this subpart?**

(a) You must be in compliance with the emission limits (including operating limits) and the work practice standards in this subpart at all times, except during periods of startup, shutdown, and malfunction.

(b) You must always operate and maintain your affected source, including air pollution control and monitoring equipment, according to the provisions in §63.6(e)(1)(i).

(c) You can demonstrate compliance with any applicable emission limit using fuel analysis if the emission rate calculated according to §63.7530(d) is less than the applicable emission limit. Otherwise, you must demonstrate compliance using performance testing.

(d) If you demonstrate compliance with any applicable emission limit through performance testing, you must develop a site-specific monitoring plan according to the requirements in paragraphs (d)(1) through (4) of this section. This requirement also applies to you if you petition the EPA Administrator for alternative monitoring parameters under §63.8(f).

(1) For each continuous monitoring system (CMS) required in this section, you must develop and submit to the EPA Administrator for approval a site-specific monitoring plan that addresses paragraphs (d)(1)(i) through (iii) of this section. You must submit this site-specific monitoring plan at least 60 days before your initial performance evaluation of your CMS.

(i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);

(ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems; and

(iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations).

(2) In your site-specific monitoring plan, you must also address paragraphs (d)(2)(i) through (iii) of this section.

(i) Ongoing operation and maintenance procedures in accordance with the general requirements of §63.8(c)(1), (c)(3), and (c)(4)(ii);

(ii) Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and

(iii) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of §63.10(c), (e)(1), and (e)(2)(i).

(3) You must conduct a performance evaluation of each CMS in accordance with your site-specific monitoring plan.

(4) You must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan.

(e) If you have an applicable emission limit or work practice standard, you must develop and implement a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in §63.6(e)(3).

**§ 63.7510 What are my initial compliance requirements and by what date must I conduct them?**

(a) For affected sources that elect to demonstrate compliance with any of the emission limits of this subpart through performance testing, your initial compliance requirements include conducting performance tests according to §63.7520 and Table 5 to this subpart, conducting a fuel analysis for each type of fuel burned in your boiler or process heater according to §63.7521 and Table 6 to this subpart, establishing operating limits according to §63.7530 and Table 7 to this subpart, and conducting CMS performance evaluations according to §63.7525.

(c) For affected sources that have an applicable work practice standard, your initial compliance requirements depend on the subcategory and rated capacity of your boiler or process heater. If your boiler or process heater is in any of the limited use subcategories or has a heat input capacity less than 100 MMBtu per hour, your initial compliance demonstration is conducting a performance test for carbon monoxide according to Table 5 to this subpart. If your boiler or process heater is in any of the large subcategories and has a heat input capacity of 100 MMBtu per hour or greater, your initial compliance demonstration is conducting a performance evaluation of your continuous emission monitoring system for carbon monoxide according to §63.7525(a).

(g) If your new or reconstructed affected source commences construction or reconstruction after November 12, 2004, you must demonstrate initial compliance with the promulgated emission limits and work practice standards no later than 180 days after startup of the source.

**§ 63.7525 What are my monitoring, installation, operation, and maintenance requirements?**

(a) If you have an applicable work practice standard for carbon monoxide, and your boiler or process heater is in any of the large subcategories and has a heat input capacity of 100 MMBtu per hour or greater, you must install, operate, and maintain a continuous emission monitoring system (CEMS) for carbon monoxide according to the procedures in paragraphs (a)(1) through (6) of this section by the compliance date specified in §63.7495.

(1) Each CEMS must be installed, operated, and maintained according to Performance Specification (PS) 4A of 40 CFR part 60, appendix B, and according to the site-specific monitoring plan developed according to §63.7505(d).

(2) You must conduct a performance evaluation of each CEMS according to the requirements in §63.8 and according to PS 4A of 40 CFR part 60, appendix B.

(3) Each CEMS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

(4) The CEMS data must be reduced as specified in §63.8(g)(2).

(5) You must calculate and record a 30-day rolling average emission rate on a daily basis. A new 30-day rolling average emission rate is calculated as the average of all of the hourly CO emission data for the preceding 30 operating days.

(6) For purposes of calculating data averages, you must not use data recorded during periods of monitoring malfunctions, associated repairs, out-of-control periods, required quality assurance or control activities, or when your boiler or process heater is operating at less than 50 percent of its rated capacity. You must use all the data collected during all other periods in assessing compliance. Any period for which the monitoring system is out of control and data are not available for required calculations constitutes a deviation from the monitoring requirements.

(c) If you have an operating limit that requires the use of a CMS, you must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the procedures in paragraphs (c)(1) through (5) of this section by the compliance date specified in §63.7495.

(1) The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period. You must have a minimum of four successive cycles of operation to have a valid hour of data.

(2) Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), you must conduct all monitoring in continuous operation at all times that the unit is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

(3) For purposes of calculating data averages, you must not use data recorded during monitoring malfunctions, associated repairs, out of control periods, or required quality assurance or control activities. You must use all the data collected during all other periods in assessing compliance. Any period for which the monitoring system is out-of-control and data are not available for required calculations constitutes a deviation from the monitoring requirements.

(4) Determine the 3-hour block average of all recorded readings, except as provided in paragraph (c)(3) of this section.

(5) Record the results of each inspection, calibration, and validation check.

(d) If you have an operating limit that requires the use of a flow measurement device, you must meet the requirements in paragraphs (c) and (d)(1) through (4) of this section.

(1) Locate the flow sensor and other necessary equipment in a position that provides a representative flow.

(2) Use a flow sensor with a measurement sensitivity of 2 percent of the flow rate.

(3) Reduce swirling flow or abnormal velocity distributions due to upstream and downstream disturbances.

(4) Conduct a flow sensor calibration check at least semiannually.

(e) If you have an operating limit that requires the use of a pressure measurement device, you must meet the requirements in paragraphs (c) and (e)(1) through (6) of this section.

- (1) Locate the pressure sensor(s) in a position that provides a representative measurement of the pressure.
- (2) Minimize or eliminate pulsating pressure, vibration, and internal and external corrosion.
- (3) Use a gauge with a minimum tolerance of 1.27 centimeters of water or a transducer with a minimum tolerance of 1 percent of the pressure range.
- (4) Check pressure tap pluggage daily.
- (5) Using a manometer, check gauge calibration quarterly and transducer calibration monthly.
- (6) Conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range or install a new pressure sensor.

**§ 63.7535 How do I monitor and collect data to demonstrate continuous compliance?**

- (a) You must monitor and collect data according to this section and the site-specific monitoring plan required by §63.7505(d).
- (b) Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all required intervals) at all times that the affected source is operating.
- (c) You may not use data recorded during monitoring malfunctions, associated repairs, or required quality assurance or control activities in data averages and calculations used to report emission or operating levels. You must use all the data collected during all other periods in assessing the operation of the control device and associated control system. Boilers and process heaters that have an applicable carbon monoxide work practice standard and are required to install and operate a CEMS, may not use data recorded during periods when the boiler or process heater is operating at less than 50 percent of its rated capacity.

**§ 63.7540 How do I demonstrate continuous compliance with the emission limits and work practice standards?**

- (a) You must demonstrate continuous compliance with each emission limit, operating limit, and work practice standard in Tables 1 through 4 to this subpart that applies to you according to the methods specified in Table 8 to this subpart and paragraphs (a)(1) through (10) of this section.
- (10) If you have an applicable work practice standard for carbon monoxide, and you are required to install a CEMS according to §63.7525(a), then you must meet the requirements in paragraphs (a)(10)(i) through (iii) of this section.
  - (i) You must continuously monitor carbon monoxide according to §§63.7525(a) and 63.7535.
  - (ii) Maintain a carbon monoxide emission level below your applicable carbon monoxide work practice standard in Table 1 to this subpart at all times except during periods of startup, shutdown, malfunction, and when your boiler or process heater is operating at less than 50 percent of rated capacity.
  - (iii) Keep records of carbon monoxide levels according to §63.7555(b).

(b) You must report each instance in which you did not meet each emission limit, operating limit, and work practice standard in Tables 1 through 4 to this subpart that apply to you. You must also report each instance during a startup, shutdown, or malfunction when you did not meet each applicable emission limit, operating limit, and work practice standard. These instances are deviations from the emission limits and work practice standards in this subpart. These deviations must be reported according to the requirements in §63.7550.

(c) During periods of startup, shutdown, and malfunction, you must operate in accordance with the SSMP as required in §63.7505(e).

(d) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the EPA Administrator's satisfaction that you were operating in accordance with your SSMP. The EPA Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).

#### **§ 63.7545 What notifications must I submit and when?**

(a) You must submit all of the notifications in §§63.7(b) and (c), 63.8 (e), (f)(4) and (6), and 63.9 (b) through (h) that apply to you by the dates specified.

(c) As specified in §63.9(b)(4) and (b)(5), if you startup your new or reconstructed affected source on or after November 12, 2004, you must submit an Initial Notification not later than 15 days after the actual date of startup of the affected source.

#### **§ 63.7550 What reports must I submit and when?**

(a) You must submit each report in Table 9 to this subpart that applies to you.

(b) Unless the EPA Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 9 to this subpart and according to the requirements in paragraphs (b)(1) through (5) of this section.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7495 and ending on June 30 or December 31, whichever date is the first date that occurs at least 180 days after the compliance date that is specified for your source in §63.7495.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.7495.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(5) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (4) of this section.

(c) The compliance report must contain the information required in paragraphs (c)(1) through (11) of this section.

(1) Company name and address.

(2) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) The total fuel use by each affected source subject to an emission limit, for each calendar month within the semiannual reporting period, including, but not limited to, a description of the fuel and the total fuel usage amount with units of measure.

(5) A summary of the results of the annual performance tests and documentation of any operating limits that were reestablished during this test, if applicable.

(6) A signed statement indicating that you burned no new types of fuel. Or, if you did burn a new type of fuel, you must submit the calculation of chlorine input, using Equation 5 of §63.7530, that demonstrates that your source is still within its maximum chlorine input level established during the previous performance testing (for sources that demonstrate compliance through performance testing) or you must submit the calculation of HCl emission rate using Equation 9 of §63.7530 that demonstrates that your source is still meeting the emission limit for HCl emissions (for boilers or process heaters that demonstrate compliance through fuel analysis). If you burned a new type of fuel, you must submit the calculation of TSM input, using Equation 6 of §63.7530, that demonstrates that your source is still within its maximum TSM input level established during the previous performance testing (for sources that demonstrate compliance through performance testing), or you must submit the calculation of TSM emission rate using Equation 10 of §63.7530 that demonstrates that your source is still meeting the emission limit for TSM emissions (for boilers or process heaters that demonstrate compliance through fuel analysis). If you burned a new type of fuel, you must submit the calculation of mercury input, using Equation 7 of §63.7530, that demonstrates that your source is still within its maximum mercury input level established during the previous performance testing (for sources that demonstrate compliance through performance testing), or you must submit the calculation of mercury emission rate using Equation 11 of §63.7530 that demonstrates that your source is still meeting the emission limit for mercury emissions (for boilers or process heaters that demonstrate compliance through fuel analysis).

(7) If you wish to burn a new type of fuel and you can not demonstrate compliance with the maximum chlorine input operating limit using Equation 5 of §63.7530, the maximum TSM input operating limit using Equation 6 of §63.7530, or the maximum mercury input operating limit using Equation 7 of §63.7530, you must include in the compliance report a statement indicating the intent to conduct a new performance test within 60 days of starting to burn the new fuel.

(8) The hours of operation for each boiler and process heater that is subject to an emission limit for each calendar month within the semiannual reporting period. This requirement applies only to limited use boilers and process heaters.

(9) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your SSMP, the compliance report must include the information in §63.10(d)(5)(i).

(10) If there are no deviations from any emission limits or operating limits in this subpart that apply to you, and there are no deviations from the requirements for work practice standards in this subpart, a statement that there were no deviations from the emission limits, operating limits, or work practice standards during the reporting period.

(11) If there were no periods during which the CMSs, including CEMS, COMS, and CPMS, were out of control as specified in §63.8(c)(7), a statement that there were no periods during which the CMSs were out of control during the reporting period.

(e) For each deviation from an emission limitation and operating limit or work practice standard in this subpart occurring at an affected source where you are using a CMS to comply with that emission limit, operating limit, or work practice standard, you must include the information in paragraphs (c) (1) through (10) of this section and the information required in paragraphs (e) (1) through (12) of this section. This includes periods of startup, shutdown, and malfunction and any deviations from your site-specific monitoring plan as required in §63.7505(d).

(1) The date and time that each malfunction started and stopped and description of the nature of the deviation (*i.e.*, what you deviated from).

(2) The date and time that each CMS was inoperative, except for zero (low-level) and high-level checks.

(3) The date, time, and duration that each CMS was out of control, including the information in §63.8(c)(8).

(4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(5) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(6) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(7) A summary of the total duration of CMSs downtime during the reporting period and the total duration of CMS downtime as a percent of the total source operating time during that reporting period.

(8) An identification of each parameter that was monitored at the affected source for which there was a deviation, including opacity, carbon monoxide, and operating parameters for wet scrubbers and other control devices.

(9) A brief description of the source for which there was a deviation.

(10) A brief description of each CMS for which there was a deviation.

(11) The date of the latest CMS certification or audit for the system for which there was a deviation.

(12) A description of any changes in CMSs, processes, or controls since the last reporting period for the source for which there was a deviation.

(f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 40 CFR part 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a compliance report pursuant to Table 9 to this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all required information concerning deviations from any emission limit, operating limit, or work practice requirement in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise

affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.

(g) If you operate a new gaseous fuel unit that is subject to the work practice standard specified in Table 1 to this subpart, and you intend to use a fuel other than natural gas or equivalent to fire the affected unit, you must submit a notification of alternative fuel use within 48 hours of the declaration of a period of natural gas curtailment or supply interruption, as defined in §63.7575. The notification must include the information specified in paragraphs (g)(1) through (5) of this section.

(1) Company name and address.

(2) Identification of the affected unit.

(3) Reason you are unable to use natural gas or equivalent fuel, including the date when the natural gas curtailment was declared or the natural gas supply interruption began.

(4) Type of alternative fuel that you intend to use.

(5) Dates when the alternative fuel use is expected to begin and end.

#### **§ 63.7555 What records must I keep?**

(a) You must keep records according to paragraphs (a)(1) through (3) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests, fuel analyses, or other compliance demonstrations, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).

(b) For each CEMS, CPMS, and COMS, you must keep records according to paragraphs (b)(1) through (5) of this section.

(1) Records described in §63.10(b)(2) (vi) through (xi).

(3) Previous (*i.e.*, superseded) versions of the performance evaluation plan as required in §63.8(d)(3).

(4) Request for alternatives to relative accuracy test for CEMS as required in §63.8(f)(6)(i).

(5) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(c) You must keep the records required in Table 8 to this subpart including records of all monitoring data and calculated averages for applicable operating limits such as opacity, pressure drop, carbon monoxide, and pH to show continuous compliance with each emission limit, operating limit, and work practice standard that applies to you.

(d) For each boiler or process heater subject to an emission limit, you must also keep the records in paragraphs (d)(1) through (5) of this section.

(1) You must keep records of monthly fuel use by each boiler or process heater, including the type(s) of fuel and amount(s) used.

**§ 63.7560 In what form and how long must I keep my records?**

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records off site for the remaining 3 years.

**§ 63.7565 What parts of the General Provisions apply to me?**

Table 10 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

**§ 63.7570 Who implements and enforces this subpart?**

(a) This subpart can be implemented and enforced by U.S. EPA, or a delegated authority such as your State, local, or tribal agency. If the EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency (as well as the U.S. EPA) has the authority to implement and enforce this subpart. You should contact your EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities listed in paragraphs (b)(1) through (5) of this section are retained by the EPA Administrator and are not transferred to the State, local, or tribal agency, however, the U.S. EPA retains oversight of this subpart and can take enforcement actions, as appropriate.

(1) Approval of alternatives to the non-opacity emission limits and work practice standards in §63.7500(a) and (b) under §63.6(g).

(2) Approval of alternative opacity emission limits in §63.7500(a) under §63.6(h)(9).

(3) Approval of major change to test methods in Table 5 to this subpart under §63.7(e)(2)(ii) and (f) and as defined in §63.90.

(4) Approval of major change to monitoring under §63.8(f) and as defined in §63.90.

(5) Approval of major change to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

**§ 63.7575 What definitions apply to this subpart?**

Terms used in this subpart are defined in the CAA, in §63.2 (the General Provisions), and in this section as follows:

*Annual capacity factor* means the ratio between the actual heat input to a boiler or process heater from the fuels burned during a calendar year, and the potential heat input to the boiler or process heater had it been operated for 8,760 hours during a year at the maximum steady state design heat input capacity.

*Boiler* means an enclosed device using controlled flame combustion and having the primary purpose of recovering thermal energy in the form of steam or hot water. Waste heat boilers are excluded from this definition.

*Deviation.* (1) Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

(i) Fails to meet any requirement or obligation established by this subpart including, but not limited to, any emission limit, operating limit, or work practice standard;

(ii) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(iii) Fails to meet any emission limit, operating limit, or work practice standard in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

(2) A deviation is not always a violation. The determination of whether a deviation constitutes a violation of the standard is up to the discretion of the entity responsible for enforcement of the standards.

*Federally enforceable* means all limitations and conditions that are enforceable by the EPA Administrator, including the requirements of 40 CFR parts 60 and 61, requirements within any applicable State implementation plan, and any permit requirements established under 40 CFR 52.21 or under 40 CFR 51.18 and 40 CFR 51.24.

*Fossil fuel* means natural gas, petroleum, coal, and any form of solid, liquid, or gaseous fuel derived from such materials.

*Fuel type* means each category of fuels that share a common name or classification. Examples include, but are not limited to, bituminous coal, subbituminous coal, lignite, anthracite, biomass, construction/demolition material, salt water laden wood, creosote treated wood, tires, residual oil. Individual fuel types received from different suppliers are not considered new fuel types except for construction/demolition material.

*Gaseous fuel* includes, but is not limited to, natural gas, process gas, landfill gas, coal derived gas, refinery gas, and biogas. Blast furnace gas is exempted from this definition.

*Heat input* means heat derived from combustion of fuel in a boiler or process heater and does not include the heat input from preheated combustion air, recirculated flue gases, or exhaust gases from other sources such as gas turbines, internal combustion engines, kilns, etc.

*Industrial boiler* means a boiler used in manufacturing, processing, mining, and refining or any other industry to provide steam, hot water, and/or electricity.

*Large gaseous fuel subcategory* includes any watertube boiler or process heater that burns gaseous fuels not combined with any solid fuels, burns liquid fuel only during periods of gas curtailment or gas supply emergencies, has a rated capacity of greater than 10 MMBtu per hour heat input, and has an annual capacity factor of greater than 10 percent.

*Natural gas* means:

(1) A naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in geologic formations beneath the earth's surface, of which the principal constituent is methane; or

(2) Liquid petroleum gas, as defined by the American Society for Testing and Materials in ASTM D1835-03a, "Standard Specification for Liquid Petroleum Gases" (incorporated by reference, see §63.14(b)).

*Period of natural gas curtailment or supply interruption* means a period of time during which the supply of natural gas to an affected facility is halted for reasons beyond the control of the facility. An increase in the cost or unit price of natural gas does not constitute a period of natural gas curtailment or supply interruption.

*Responsible official* means responsible official as defined in 40 CFR 70.2.

*Temporary boiler* means any gaseous or liquid fuel boiler that is designed to, and is capable of, being carried or moved from one location to another. A temporary boiler that remains at a location for more than 180 consecutive days is no longer considered to be a temporary boiler. Any temporary boiler that replaces a temporary boiler at a location and is intended to perform the same or similar function will be included in calculating the consecutive time period.

*Watertube boiler* means a boiler in which water passes through the tubes and hot gases of combustion pass over the outside surfaces of the tubes.

*Work practice standard* means any design, equipment, work practice, or operational standard, or combination thereof, that is promulgated pursuant to section 112(h) of the CAA.

## Subpart DDDDD Applicable Tables

**Table 1 to Subpart DDDDD of Part 63—Emission Limits and Work Practice Standards**

As stated in § 63.7500, you must comply with the following applicable emission limits and work practice standards:

If your boiler or process heater is in this subcategory . . .	For the following pollutants . . .	You must meet the following emission limits and work practice standards
7. New or reconstructed large gaseous fuel.	Carbon Monoxide.....	400 ppm by volume on a dry basis corrected to 3 percent oxygen (30-day rolling average for units 100 MMBtu/hr or greater,

**Table 8 to Subpart DDDDD of Part 63—Demonstrating Continuous Compliance**

As stated in § 63.7540, you must show continuous compliance with the emission limitations for affected sources according to the following:

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If you must meet the following operating limits or work practice standards . . . You must demonstrate continuous compliance by . . .  
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7. Fuel Pollutant Content..... b. Keeping monthly records of fuel use according to §63.7540(a).  
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**Table 9 to Subpart DDDDD of Part 63—Reporting Requirements**

As stated in § 63.7550, you must comply with the following requirements for reports:

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You must submit a(n)                      The report must contain . . .                      You must submit the report . . .  
-----

1. Compliance report.... a. Information required in § 63.7550(c) (1) through (11); and                      Semiannually according to the requirements in § 63.7550(b).

b. If there are no deviations from any emission limitation(emission limit and operating limit)that applies to you and there are no deviations from the requirements for work practice standards in Table 8 to this subpart that apply to you, a statement that there were no deviations from the emission limitations and work practice standards during the reporting period.

If there were no periods during which the CMSs, including continuous emissions monitoring system, continuous opacity monitoring system, and operating parameter monitoring systems, were out-of-control as specified in § 63.8(c) (7), a statement that there were no periods during which the CMSs were out-of-control during the reporting period; and

c. If you have a deviation from any emission limitation (emission limit and operating limit) or work practice standard during the reporting period, the report must contain the information in § 63.7550(d).

If there were periods during which the CMSs, including continuous emissions monitoring system, continuous opacity monitoring system, and operating parameter monitoring systems, were out-of-control, as specified in 63.8(c)(7), the report must contain the information in § 63.7550(e); and

- d. If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in § 63.10(d)(5)(i)
  - 2. An immediate startup, shutdown, and malfunction report if you had a startup, shutdown, or malfunction during the reporting period that is not consistent with your startup, shutdown, and malfunction plan, and the source exceeds any applicable emission limitation in the relevant emission standard.
    - a. Actions taken for the event; and report if you had a startup, shutdown, or malfunction during the reporting period that is not consistent with your startup, shutdown, and malfunction plan, and the source exceeds any applicable emission limitation in the relevant emission standard.
      - i. By fax or telephone within 2 working days after starting actions inconsistent with the plan; and
      - ii. By letter within 7 working days after the end of the event unless you have made alternative arrangements with the permitting authority.
    - b. The information in § 63.10(d)(5)(ii)

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**Table 10 to Subpart DDDDD of Part 63—Applicability of General Provisions to Subpart DDDDD**

As stated in § 63.7565, you must comply with the applicable General Provisions according to the following:

Citation	Subject	Brief description	Applicable
§ 63.1.....	Applicability...	Initial Applicability Determination; Applicability After Standard Established; Permit Requirements; Extensions, Notifications.	Yes.
§ 63.2.....	Definitions.....	Definitions for Part 63 standards.	Yes.
§ 63.3.....	Units and Abbreviations...	Units and abbreviations for part 63 standards.	Yes.

§ 63.4.....	Prohibited Activities.....	Prohibited Activities; Compliance date; Circumvention, Severability.	Yes.
§ 63.5.....	Construction/ Reconstruction.	Applicability; applications; approvals.	Yes.
§ 63.6(a).....	Applicability...	GP apply unless compliance extension;	Yes.
§ 63.6(b) (1)-(4)	Compliance Dates for New and Reconstructed sources.	Standards apply at effective date; 3 years after effective date; upon startup; 10 years after construction or reconstruction commences for 112(f).	Yes.
§ 63.6(b) (5)....	Notification...	Must notify if commenced construction or reconstruction after proposal.	Yes.
§ 63.6(e) (1)-(2)	Operation & Maintenance.	Operate to minimize emissions at all times; and Correct malfunctions as soon as practicable; and Operation and maintenance requirements independently enforceable; information Administrator will use to determine if operation and maintenance requirements were met.	Yes.
§ 63.6(e) (3)....	Startup, Shutdown, and Malfunction Plan (SSMP).	Requirement for SSM and startup, shutdown, malfunction plan; and content of SSMP.	Yes.
§ 63.6(f) (1)....	Compliance Except During SSM.	Comply with emission standards at all times except during SSM.	Yes.
§ 63.6(f) (2)-(3)	Methods for Determining Compliance.	Compliance based on performance test, operation and maintenance plans, records, inspection.	Yes.
§ 63.6(g) (1)-(3)	Alternative.... Standard	Procedures for getting an alternative standard.	Yes.
§ 63.6(i) (1)-(14)	Compliance..... Extension	Procedures and criteria for Administrator to grant compliance extension.	Yes.
§ 63.6(j).....	Presidential Compliance Exemption.	President may exempt source category from requirement to comply with rule.	Yes.
§ 63.8(a) (1)....	Applicability of Monitoring Requirements.	Subject to all monitoring requirements in standard.	Yes.

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§ 63.8(a)(2)....	Performance Specifications	Performance Specifications in appendix B of part 60 apply.	Yes.
§ 63.8(b)(1)(i)-(ii)	Monitoring.....	Must conduct monitoring according to standard unless Administrator approves alternative.	Yes.
§ 63.8(b)(2)-(3)	Multiple Effluents and Multiple Monitoring Systems.	Specific requirements for installing monitoring systems; and must install on each effluent before it is combined and before it is released to the atmosphere unless Administrator approves otherwise; and if more than one monitoring system on an emission point, must report all monitoring system results, unless one monitoring system is a backup.	Yes.
§ 63.8(c)(1)....	Monitoring System Operation and Maintenance.	Maintain monitoring system in a manner consistent with good air pollution control practices.	Yes.
§ 63.8(c)(1)(i)	Routine and Predictable SSM.	Maintain and operate CMS according to § 63.6(e)(1).	Yes.
§ 63.8(c)(1)(ii)	SSM not in SSMP	Must keep necessary parts available for routine repairs of CMSs.	Yes.
§ 63.8(c)(1)(iii)	Compliance with Operation and Maintenance Requirements.	Must develop and implement an SSMP for CMSs.	Yes.
§ 63.8(c)(2)-(3)	Monitoring System Installation.	Must install to get representative emission and parameter measurements; and must verify operational status before or at performance test.	Yes.
§ 63.8(c)(7)-(8)	Continuous Monitoring Systems Requirements.	Out-of-control periods, including reporting.	Yes.
§ 63.8(d)....	Continuous Monitoring Systems Quality Control.	Requirements for continuous monitoring systems quality control, including calibration, etc.; and must keep quality control plan on record for the life of the affected source. Keep old versions for 5 years after revisions.	Yes.
§ 63.8(e)....	Continuous monitoring systems Performance Evaluation.	Notification, performance evaluation test plan, reports.	Yes.

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§ 63.8(f)(1)-(5)	Alternative Monitoring Method.	Procedures for Administrator to approve alternative monitoring.	Yes.
§ 63.9(a)....	Notification Requirements.	Applicability and State Delegation.	Yes.
§ 63.9(b)(1)-(5)	Initial Notifications	Submit notification 120 days after effective date; and Notification of intent to construct/reconstruct; and Notification of commencement of construct/reconstruct; Notification of startup; and Contents of each.	Yes.
§ 63.9(c)....	Request for Compliance Extension.	Can request if cannot comply by date or if installed BACT/LAER.	Yes.
§ 63.9(g)....	Additional Notifications When Using Continuous Monitoring Systems.	Notification of performance evaluation; and notification using continuous opacity monitoring system data; and notification that exceeded criterion for relative accuracy.	Yes.
§ 63.9(h)(1)-(6)	Notification of Compliance Status.	Contents; and due 60 days after end of performance test or other compliance demonstration, and when to submit to Federal vs. State authority.	Yes.
§ 63.9(i)....	Adjustment of Submittal Deadlines.	Procedures for Administrator to approve change in when notifications must be submitted.	Yes.
§ 63.9(j)....	Change in Previous Information.	Must submit within 15 days after the change.	Yes.
§ 63.10(a)....	Recordkeeping/Reporting	Applies to all, unless compliance extension; and when to submit to Federal vs. State authority; and procedures for owners of more than 1 source.	Yes.
§ 63.10(b)(1)	Recordkeeping/Reporting	General Requirements; and keep all records readily available and keep for 5 years.	Yes.
§ 63.10(b)(2)(i)-(v)	Records related to Startup, Shutdown, and Malfunction.	Occurrence of each of operation (process, equipment); and occurrence of each malfunction of air pollution equipment; and maintenance of air pollution control equipment; and actions during startup, shutdown, and malfunction.	Yes.

§ 63.10(b) (2) (vi) and (x-xi)	Continuous monitoring systems Records.	Malfunctions, inoperative, out-of-control; and calibration checks; and adjustments, maintenance.	Yes.
§ 63.10(b) (2) (vii) - (ix)	Records.....	Measurements to demonstrate compliance with emission limitations; and performance test, performance evaluation, and visible emission observation results; and measurements to determine conditions of performance tests and performance evaluations.	Yes.
§ 63.10(b) (2) (xii)	Records...	Records when under waiver.	Yes.
§ 63.10(b) (2) (xiv)	Records...	All documentation supporting Initial Notification and Notification of Compliance Status.	Yes.
§ 63.10(b) (3)	Records...	Applicability Determinations.	Yes.
§ 63.10(c) (1), (5) - (8), (10) - (15)	Records...	Additional Records for continuous monitoring systems.	Yes.
§ 63.10(d) (1) ...	General Reporting Requirements.	Requirement to report.....	Yes.
§ 63.10(d) (2) ...	Report of Performance Test Results.	When to submit to Federal or State authority.	Yes.
§ 63.10(d) (4) ...	Progress Reports	Must submit progress reports on schedule if under compliance extension.	Yes.
§ 63.10(d) (5) ...	Startup, Shutdown, and Malfunction Reports.	Contents and submission...	Yes.
§ 63.10(e) (1) (2)	Additional continuous monitoring systems Reports.	Must report results for each CEM on a unit; and written copy of performance evaluation; and 3 copies of continuous opacity monitoring system performance evaluation.	Yes.
§ 63.10(f) ...	Waiver for Recordkeeping/ Reporting.	Procedures for Administrator to waive.	Yes.
§ 63.12....	Delegation	State authority to enforce standards.	Yes.
§ 63.13....	Addresses	Addresses where reports, notifications, and requests are sent.	Yes.

§ 63.14....	Incorporation by Reference	Test methods incorporated by reference.	Yes.
§ 63.15....	Availability of Information.	Public and confidential Information.	Yes.

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**D.4.16 One Time Deadlines Relating to NESHAP 63.7480, Subpart DDDDD**

The Permittee shall comply with the following requirements by the dates listed:

Requirement	Rule Cite	Affected Facility	Deadline
Compliance with the Subpart	40 CFR 63.7495(a)	Package Boiler #1	Upon startup
Develop and submit to the EPA for approval a site-specific monitoring plan	40 CFR 63.7505(d)(1)	Package Boiler #1	at least 60 days before the initial performance evaluation of the CMS
Demonstrate initial compliance with the emission limits and work practice standards	40 CFR 63.7510(g)	Package Boiler #1	no later than 180 days after startup
Submit all of the notifications in §§63.7(b) and (c), 63.8 (e), (f)(4) and (6), and 63.9 (b) through (h) that apply by the dates specified.	40 CFR 63.7545(a)	Package Boiler #1	Dates specified in the above Table 10 to Subpart DDDDD of Part 63, applicable General Provisions.
Submit Initial Notification	40 CFR 63.7545(c)	Package Boiler #1	not later than 15 days after the actual startup

## Indiana Department of Environmental Management Office of Air Quality

### Addendum to the Technical Support Document for a Part 70 Significant Source Modification and Significant Permit Modification

Source Name: Cargill, Inc.  
 Source Location: 1100 Indianapolis Boulevard, Hammond, Indiana 46320  
 County: Lake County  
 SIC Code: 2046 – Wet Corn Milling  
 Operation Permit No.: T089-7994-00203, issued on June 28, 2004  
 Significant Source Modification No.: 089-22309-00203  
 Significant Permit Modification No.: 089-22333-00203  
 Permit Reviewer: Ronald Holder, HDEM

On July 17, 2006, the Hammond Department of Environmental Management (HDEM) had a notice published in the Hammond Times, Hammond, Indiana, stating that Cargill, Inc. had applied for a modification to their Part 70 Permit to install a new boiler and retire some existing boilers. The notice also stated that HDEM proposed to issue the modification approval and permit modification for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

The OAQ prefers that the Technical Support Document (TSD) reflect the permit that was on public notice. Changes to the permit or technical support material that occur after the public notice are documented in this Addendum to the Technical Support Document. This accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision.

Therefore, the original TSD is not changed, but is updated as follows:

On August 7, 2006, a temporary emergency rule took effect re-designating Lake County to attainment for the sulfur dioxide standard and revoking the one-hour ozone standard in Indiana. The Indiana Air Pollution Control Board has approved a permanent rule revision to incorporate these changes into 326 IAC 1-4-1. The permanent revision to 326 IAC 1-4-1 will take effect prior to the expiration of the emergency rule.

**On page 1 of 41, in the TSD, the County Attainment Status table is updated as follows:**

<b>County Attainment Status</b>
---------------------------------

The source is located in Lake County.

Pollutant	Status
PM10	Attainment
PM2.5	Nonattainment
SO <sub>2</sub>	<del>Nonattainment</del> Attainment
NO <sub>2</sub>	Attainment
1-hour Ozone	<del>Severe</del> Nonattainment
8-hour Ozone	Moderate Nonattainment
CO	Attainment
Lead	Attainment

**On page 2 of 41, in the TSD, the County Attainment Status language is updated as follows**

- ~~(a) Volatile organic compounds (VOC) and nitrogen oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone.~~
- ~~(1) On January 26, 1996 in 40 CFR 52.777(i), the U.S. EPA granted a waiver of the requirements of Section 182(f) of the CAA for Lake and Porter Counties, including the lower NOx threshold for nonattainment new source review. Therefore, VOC emissions alone are considered when evaluating the rule applicability relating to the 1 hour ozone standard. Lake County has been designated as severe non-attainment in Indiana for the 1 hour ozone standard. Therefore, VOC emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.~~
- ~~(2) VOC and NOx emissions are considered when evaluating the rule applicability relating to the 8-hour ozone standard. Lake County has been designated as non-attainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.~~
- (a) Volatile organic compounds (VOC) and Nitrogen Oxides (NOx) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to the ozone standards. Lake County has been designated as nonattainment for the 8-hour ozone standard. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.**
- (c) Lake County has been classified as attainment or unclassifiable for PM10, CO, **SO2**, and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) Lake County has been classified as nonattainment for PM2.5 and ~~SO<sub>2</sub>~~. Therefore, these emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

**On page 3 of 41, in the TSD, the language in the discussion of Source Status is updated as follows:**

- (b) This existing source is a major stationary source under Emission Offset (326 IAC 2-3) because PM2.5 (as PM10), ~~SO<sub>2</sub>~~, and VOC, non-attainment regulated pollutants, are emitted at a rate of 100 tons per year or more.

Because of the above updates, the following revisions were made to the permit (bolded language has been added, the language with a line through it has been deleted).

**On page 7 of 102, in Section A.1, the General Information is revised as follows:**

Source Location Status:	Nonattainment for ozone under the 8-hour standard Nonattainment for <del>ozone under the 1 hour standard</del> <b>PM2.5</b> <del>Nonattainment for SO<sub>2</sub></del>
Source Status:	Attainment for PM10, NOx, CO, <b>SO2</b> , and Lead Part 70 Permit Program Major Source, under PSD or Emission Offset Rules; <del>and Nonattainment NSR</del> Major Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

For clarification, only applicable requirements of the NSPS 40 CFR 60, Subpart Db, and the NESHAP 40 CFR 63, Subpart DDDDD, were included in the permit. Non-applicable requirements were not specified.

Upon further review, Condition D.4.16 has been corrected as follows:

**On page 80 of 102, in Condition D.4.16, One Time Deadlines Relating to NESHAP 63.7480, Subpart DDDDD, the acronym (SSMP) is deleted from the Requirement column in the table and the word “he” in the Deadline column is corrected to “the”.**

The following three (3) comments were received from the Cargill, Inc. in Hammond. The response and, if necessary, revision to the permit follows the comment.

#### **Comment 1.**

Cargill requests that Section C.14(c) of No: 089-22333-00203, relating to Maintenance of Continuous Emission Monitoring Equipment, be removed in its entirety. Our technical and legal analysis including discussions with David Cline, Chief of IDEM's Compliance Data Section indicate that it is not possible for a replacement monitor to properly be brought on line in four hours as requested in the draft permit nor is it required under state or federal rules. It takes time to diagnose issues, warm up replacement instrument and calibrate the instrument in accordance with IDEM guidance documents and therefore, compliance with this provision, as written, would essentially require the installation, operation and maintenance of a duplicate monitoring device and potentially double the cost of monitoring at our facility. We don't believe this is your intention therefore Cargill proposes that the CEMS operational requirements already cited in the permit [40 CFR 60 Subpart Db] sufficiently address allowable down time for maintenance of continuous monitoring equipment without requiring overly burdensome and costly duplicative monitoring and supports a more level playing field across the industry.

If Section C.14(c) cannot be removed in its entirety, Cargill requests IDEM address CEM operation by requiring parametric monitoring instead of operation of a replacement (duplicate) monitor. Because combustion control practices and fuel use are the only sources of variability impacting NOx and CO emission rates of this boiler, during any CEM equipment down times exceeding four (4) hours, Cargill could utilize operational control devices to monitor fuel use rates and exhaust gas oxygen concentrations and maintain these parameters within predetermined ranges. These parametric monitoring ranges would be established by reviewing fuel use and exhaust gas oxygen concentration data during periods when the continuous monitoring equipment demonstrates compliance with applicable NOx and CO limits as specified in the permit, thus effectively giving assurance of compliance during CEM maintenance periods exceeding four hours.

#### **Response to Comment 1.**

IDEM and HDEM believe the existing Federal requirement in the permit is sufficient. Subpart Db, 60.48b(f) on page 59 states – “When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days”. Other suggested parametric monitoring is already being performed to meet operational, record keeping and/or reporting requirements. Section (c) of Condition C.14 can be removed as follows:

~~(c) — Whenever a continuous emission monitor other than an opacity monitor is malfunctioning or will be down for calibration, maintenance, or repairs for a period of four (4) hours or more, a calibrated backup CEMS shall be brought online within four (4) hours of the shutdown of the primary CEMS, and shall be operated until such time as the primary CEMS is back in operation.~~

Section ~~(d)~~ of Condition C.14 is changed to **(c)**.

## **Comment 2.**

On July 28, 2004, Cargill filed an appeal to its Part 70 permit T089-7994-00203 (the permit was issued on June 28, 2004). The issues raised in that appeal (Cause No. 04-A-J-3395) are unrelated to the proposed Modification. Cargill's appeal is still pending with the Indiana Office of Environmental Adjudication. While the proposed Modification purports only to modify Cargill's initial Part 70 permit, the document circulated for public comment appears to be a new permit. Specifically, the front page of No. 089-22333-00203 states that the Modification affects the "Entire Permit". The issuance of a new permit could be interpreted to require Cargill to file another appeal on the issues covered in the pending case to preserve its rights. Cargill requests that IDEM and HDEM provide guidance on the effect of the Modification on Cargill's appeal proceedings.

## **Response to Comment 2.**

The issuance of this modification does not affect Cargill's appeal proceedings. Condition B.2 states:

### **B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.9]**

This permit (T089-7994-00203) is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

Note that the reference is to the original issued Part 70 permit number (T089-7994-00203). The mention of the modification affecting the "Entire Permit" is in reference to the "pages affected". All pages (the entire permit) were affected because the large amount of material that was added to the permit necessitated the re-pagination the entire permit.

Some of the problems relating to the original appeal may have been satisfied or may no longer apply because of some universal changes that have been made to the B and C sections of the permit since the original issuance.

## **Comment 3.**

On March 3, 2006, the Federal District Court in Minnesota entered a consent decree between Cargill, Incorporated, U.S. EPA, the State of Indiana and other participating States and agencies. U.S. et al. v. Cargill, Incorporated, Civil Action No. 05-2037JMR/FLN (the "Consent Decree"). Paragraph 77(a) of the Consent Decree states that Cargill shall comply with the specific emission reduction requirements, emission limits, operating parameters, monitoring requirements and record keeping requirements specified in the Decree, "which shall supersede and control over corresponding terms and conditions of any air quality control permits existing as of the date of entry of this Consent Decree." The Modification once issued should not supersede the conditions of the Consent Decree. Cargill requests that the Modification state that "the Consent Decree is hereby incorporated in its entirety into this permit. During the effective period of the Consent Decree, Cargill shall comply with the specific emission reduction requirements, emission limits, operating parameters, monitoring requirements and recordkeeping requirements specified in the Consent Decree " and applicable to this facility. These requirements shall supersede and control over corresponding terms and conditions of this permit. "

## **Response to Comment 3.**

The Modification does not supersede or conflict with any of the conditions of the Consent Decree. IDEM, however, cannot state in the permit that "the Consent Decree is hereby incorporated in its entirety into the permit" because the Consent Decree also requires that Cargill submit the appropriate and timely application requests to the permitting authorities for any modifications or changes required in the decree. The proposed modification is independent of the Consent Decree.

**Indiana Department of Environmental Management  
Office of Air Quality**

and

**Hammond Department of Environmental Management  
Air Pollution Control Division**

Technical Support Document (TSD) for a Part 70  
Significant Source Modification and Significant Permit Modification.

<b>Source Description and Location</b>
--

<b>Source Name:</b>	Cargill, Inc
<b>Source Location:</b>	1100 Indianapolis Boulevard, Hammond, Indiana 46320
<b>County:</b>	Lake County
<b>SIC Code:</b>	2046 – Wet Corn Milling
<b>Operation Permit No.:</b>	T089-7994-00203
<b>Operation Permit Issuance Date:</b>	June 28, 2004
<b>Significant Source Modification No.:</b>	089-22309-00203
<b>Significant Permit Modification No.:</b>	089-22333-00203
<b>Permit Reviewer:</b>	Ronald Holder - HDEM

<b>Existing Approvals</b>
---------------------------

The source was issued Part 70 Operating Permit No. T089-7994-00203 on June 28, 2004.  
The source has since received the following approvals:

- (a) Administrative Amendment No. 089-19797-00203, issued on November 17, 2004;
- (b) Administrative Amendment No. 089-20933-00203, issued on April 1, 2005; and
- (c) Administrative Amendment No. 089-21610-00203, issued on August 22, 2005.

<b>County Attainment Status</b>
---------------------------------

The source is located in Lake County.

Pollutant	Status
PM10	Attainment
PM2.5	Nonattainment
SO <sub>2</sub>	Nonattainment
NO <sub>2</sub>	Attainment
1-hour Ozone	Severe Nonattainment
8-hour Ozone	Moderate Nonattainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and nitrogen oxides (NO<sub>x</sub>) are regulated under the Clean Air Act (CAA) for the purposes of attaining and maintaining the National Ambient Air Quality Standards (NAAQS) for ozone.
  - (1) On January 26, 1996 in 40 CFR 52.777(i), the U.S. EPA granted a waiver of the requirements of Section 182(f) of the CAA for Lake and Porter Counties, including the lower NO<sub>x</sub> threshold for nonattainment new source review. Therefore, VOC emissions alone are considered when evaluating the rule applicability relating to the 1-hour ozone standard. Lake County has been designated as severe non-attainment in Indiana for the 1-hour ozone standard. Therefore, VOC emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.
  - (2) VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to the 8-hour ozone standard. Lake County has been designated as non-attainment for the 8-hour ozone standard. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.
- (b) U.S. EPA, in the Federal Register Notice 70 FR 943 dated January 5, 2005, has designated Lake County as nonattainment for PM<sub>2.5</sub>. On March 7, 2005 the Indiana Attorney General's Office, on behalf of IDEM, filed a law suit with the Court of Appeals for the District of Columbia Circuit challenging U.S. EPA's designation of nonattainment areas without sufficient data. However, in order to ensure that sources are not potentially liable for a violation of the Clean Air Act, the OAQ is following the U.S. EPA's guidance to regulate PM<sub>10</sub> emissions as a surrogate for PM<sub>2.5</sub> emissions pursuant to the requirements of Emission Offset, 326 IAC 2-3.
- (c) Lake County has been classified as attainment or unclassifiable for PM<sub>10</sub>, CO, and Lead. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2.
- (d) Lake County has been classified as nonattainment for PM<sub>2.5</sub> and SO<sub>2</sub>. Therefore, these emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.
- (e) Fugitive Emissions  
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 or 326 IAC 2-3, fugitive emissions are not counted toward the determination of PSD and Emission Offset applicability.

<b>Source Status</b>
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The table below summarizes the potential to emit of the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

<b>Pollutant</b>	<b>Emissions (tons/year)</b>
PM <sub>10</sub>	> 100
SO <sub>2</sub>	> 100
VOC	> 250
CO	> 250
NO <sub>x</sub>	> 250

- (a) This existing source is a major stationary source, under PSD (326 IAC 2-2), because a regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not one of the twenty-eight (28) listed source categories, as specified in 326 IAC 2-2-1(gg)(1).

- (b) This existing source is a major stationary source under Emission Offset (326 IAC 2-3) because PM<sub>2.5</sub> (as PM<sub>10</sub>), SO<sub>2</sub>, and VOC, non-attainment regulated pollutants, are emitted at a rate of 100 tons per year or more.
- (c) These emissions are based upon the potential to emit after control as reported in the source's 2004 emission statement.

The table below summarizes the potential to emit HAPs for the entire source, prior to the proposed modification, after consideration of all enforceable limits established in the effective permits:

HAPs	Potential To Emit (tons/year)
Propylene oxide	> 10
Hydrochloric acid	< 10
Toluene	< 10
Formaldehyde	< 10
Acetaldehyde	< 10
TOTAL	> 25

This existing source is a major source of HAPs, as defined in 40 CFR 63.41, because HAP emissions are greater than ten (10) tons per year for a single HAP or greater than twenty-five (25) tons per year for a combination of HAPs. Therefore, this source is a major source under Section 112 of the Clean Air Act (CAA).

#### Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2004 OAQ emission data.

Pollutant	Actual Emissions (tons/year)
PM	97.6
PM <sub>10</sub>	97.6
SO <sub>2</sub>	128.3
VOC	65.5
CO	97.9
NO <sub>x</sub>	232.2
Propylene Oxide	9.0
Hydrochloric acid	4.6
Toluene	1.3

#### Description of Proposed Modification

The Office of Air Quality (OAQ) has reviewed a modification application, submitted by Cargill, Inc. on November 23, 2005, relating to the installation of new emission unit Package Boiler #1 and the removal of existing Boilers 1, 2, 6, 7, 8, and 10 (see Appendix A calculations). Boilers 1, 2, 6, 7, 8, and 10 will be permanently retired when the new boiler becomes operational. The following is a description of Package Boiler #1 as it will appear in the permit.

Natural gas-fired Package Boiler #1 (Unit ID 89-03-U), installed in 2006, with a maximum heat input capacity of 274 million Btu/hr, and exhausting to stack S89-03-U. Under NSPS 40 CFR 60 Subpart Db, Package Boiler #1 is a steam-generating unit with a heat input capacity greater than 100 million Btu/hr. Under NESHAP 40 CFR 63 Subpart DDDDD, Package Boiler #1 is an industrial boiler in the large gaseous fuel subcategory.

### **Enforcement Issues**

There are no pending enforcement actions related to this modification.

### **Stack Summary**

<b>Stack ID</b>	<b>Operation</b>	<b>Height (feet)</b>	<b>Diameter (feet)</b>	<b>Flow Rate (acfm)</b>	<b>Temperature (°F)</b>
S89-03-U	Package Boiler #1	89	4.6	69,137	286

### **Emission Calculations**

See Appendix A of this document for detailed emission calculations (four (4) pages).

### **Permit Level Determination – Part 70**

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emission unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, IDEM, or the appropriate local air pollution control agency.”

The following table is used to determine the appropriate permit level under 326 IAC 2-7-10.5. This table reflects the PTE of Package Boiler #1 before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

<b>Pollutant</b>	<b>Potential To Emit (tons/year)</b>
PM	8.89
PM10	8.89
SO <sub>2</sub>	0.70
VOC	6.43
CO	98.26
NO <sub>x</sub>	119.3

This significant source modification is subject to 326 IAC 2-7-10.5(f)(4) because it has the potential to emit greater than or equal to twenty-five (25) tons per year of nitrogen oxides (NO<sub>x</sub>). Additionally, the modification will be incorporated into the Part 70 Operating Permit through a significant permit modification issued pursuant to 326 IAC 2-7-12(d) because of the significant change in existing monitoring Part 70 permit terms and conditions.

**Permit Level Determination – PSD or Emission Offset**

The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered federally enforceable only after issuance of this Part 70 permit modification, and only to the extent that the effect of the control equipment is made practically enforceable in the permit.

Boiler project Process/Emission Unit	Emissions changes (tons/year)						
	PM	PM10/2.5	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	Pb
Potential to Emit of New Emission Unit Package Boiler #1 (tons/year)	8.9	8.9	0.7	6.4	98.3	119.3	0.0006
Past Actual Emissions of the Retiring Emission Unit - Boiler #2	2.4	0.9	0.2	1.7	26.1	42.0	0.0002
Past Actual Emissions of the Retiring Emission Unit - Boiler #6	4.2	1.7	0.3	3.0	46.2	154.0	0.0003
Past Actual Emissions of the Retiring Emission Unit - Boiler #8	0.8	0.3	0.1	0.6	8.9	29.7	0.0001
Past Actual Emissions of the Retiring Emission Unit - Boiler #10	0.8	0.3	0.1	0.6	8.9	29.7	0.0001
<b>Net Emissions increase (tons/year)</b>	<b>0.7</b>	<b>5.7</b>	<b>0.1</b>	<b>0.5</b>	<b>8.3</b>	<b>-136.1</b>	<b>0.0000</b>

PSD/Emission Offset Significant Level	<b>25</b>	<b>15</b>	<b>40</b>	<b>40/25</b>	<b>100</b>	<b>40</b>	<b>0.6</b>
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VOC - 25 tpy is the de minimis in an area classified as serious or severe nonattainment for ozone (see VOC de minimis determination)

This modification to an existing major stationary source is not major because the emissions increase is less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

This modification to an existing major stationary source is not major because the emissions increase is less than the Emission Offset significant levels. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.

Emissions reductions from the removal of Boilers #1 and #7 are not included above because their retirement is required by Federal Consent Decree 741150 (IDEM case# 2005-14646-A).

**VOC De Minimis Determination**

- (1) Lake County is classified as a severe nonattainment area for ozone.
- (2) Since Cargill, Inc. is located in Lake County, the proposed modification must be evaluated to determine if it is a minor modification in terms of 326 IAC 2-3 by determining if the VOC emissions increase is de minimis. [326 IAC 2-3-1(z)]
- (3) De minimis means a VOC increase that does not exceed twenty-five (25) tons per year when the net emissions increases from the proposed modification are aggregated with all other net emissions increases from the source over a five (5) consecutive calendar year period prior to, and including, the year of the modification. [326 IAC 2-3-1(q)]
- (4) The VOC de minimis determination is not necessary because the VOC emissions increase from this Boiler project is less than fifteen (15) pounds per day.

<b>Federal Rule Applicability Determination</b>
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The following federal rules are applicable to the source due to this modification:

- (a) Pursuant to 40 CFR 60.40b, paragraph (j), Package Boiler #1 is not subject to 40 CFR 60.40, Subpart D (Standards of Performance for Fossil-Fuel-Fired Steam Generators), because it meets the applicability requirements under paragraph (a) of 40 CFR 60.40b and will commence construction, modification, or reconstruction after June 19, 1986.
- (b) Package Boiler #1 is subject to the New Source Performance Standards (**NSPS**) for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60.40b, Subpart Db, which is incorporated by reference as 326 IAC 12, because it will be installed after June 19, 1984 and has a heat input capacity greater than 100 million Btu/hr.

Nonapplicable portions of the NSPS will not be included in the permit. Package Boiler #1 is subject to the following portions of Subpart Db:

40 CFR 60.40b(a)  
40 CFR 60.40b(j)

40 CFR 60.44b(a)(1)  
40 CFR 60.44b(h)  
40 CFR 60.44b(i)

40 CFR 60.46b(a)  
40 CFR 60.46b(c)  
40 CFR 60.46b(e)(1)

40 CFR 60.48b(b)(1)  
40 CFR 60.48b(c)  
40 CFR 60.48b(d)  
40 CFR 60.48b(e)(2)  
40 CFR 60.48b(f)

40 CFR 60.49b(a)(1)  
40 CFR 60.49b(a)(3)  
40 CFR 60.49b(b)  
40 CFR 60.49b(d)  
40 CFR 60.49b(g)  
40 CFR 60.49b(i)  
40 CFR 60.49b(o)  
40 CFR 60.49b(v)  
40 CFR 60.49b(w)

The provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated as 326 IAC 12-1, apply to Package Boiler #1, except when otherwise specified in 40 CFR 60, Subpart Db.

- (c) Package Boiler #1 is subject to the National Emission Standards for Hazardous Air Pollutants (**NESHAP**) for Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR 63.7480, Subpart DDDDD) because it is an industrial boiler in the large gaseous fuel subcategory. At the time of this review, Subpart DDDDD had not yet been incorporated by reference into 326 IAC 20.

Nonapplicable portions of the NESHAP will not be included in the permit. Package Boiler #1 is subject to the following portions of Subpart DDDDD:

40 CFR 63.7480

40 CFR 63.7485

40 CFR 63.7490(a)(2)

40 CFR 63.7490(b)

40 CFR 63.7495(a)

40 CFR 63.7495(d)

40 CFR 63.7499

40 CFR 63.7500(a)(1)

40 CFR 63.7500(b)

40 CFR 63.7505

40 CFR 63.7510(a)

40 CFR 63.7510(c)

40 CFR 63.7510(g)

40 CFR 63.7525(a)

40 CFR 63.7525(c)

40 CFR 63.7525(d)

40 CFR 63.7525(e)

40 CFR 63.7535

40 CFR 63.7540(a)(10)

40 CFR 63.7540(b)

40 CFR 63.7540(c)

40 CFR 63.7540(d)

40 CFR 63.7545(a)

40 CFR 63.7545(c)

40 CFR 63.7550(a)

40 CFR 63.7550(b)

40 CFR 63.7550(c)

40 CFR 63.7550(e)

40 CFR 63.7550(f)

40 CFR 63.7550(g)

40 CFR 63.7555(a)

40 CFR 63.7555(b)(1)

40 CFR 63.7555(b)(3)

40 CFR 63.7555(b)(4)

40 CFR 63.7555(b)(5)

40 CFR 63.7555(c)

40 CFR 63.7555(d)(1)

40 CFR 63.7560

40 CFR 63.7565

40 CFR 63.7570

40 CFR 63.7575 (applicable definitions)

The following tables in Subpart DDDDD also apply:

Table 1 (7)  
Table 8 (7b)  
Table 9  
Table 10 (applicable parts)

The provisions of 40 CFR 63 Subpart A – General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 63 Subpart DDDDD.

- (d) Pursuant to 40 CFR 64.2, Compliance Assurance Monitoring (CAM) is applicable to new or modified emission units that involve a pollutant-specific emission unit and meet the following criteria:
- (1) has a potential to emit before controls equal to or greater than the major source threshold for the pollutant involved;
  - (2) is subject to an emission limitation or standard for that pollutant; and
  - (3) uses a control device, as defined in 40 CFR 64.1, to comply with that emission limitation or standard.

Package Boiler #1 does not use a control device, as defined in 40 CFR 64.1, to comply with an emission limitation or standard. Therefore, the requirements of 40 CFR Part 64, CAM are not applicable.

#### **State Rule Applicability Determination**

The following state rules are applicable to the source due to the modification:

**326 IAC 2-2 and 2-3 (PSD and Emission Offset)**

PSD and Emission Offset applicability are discussed under the Permit Level Determination - PSD and Emission Offset and VOC De Minimus Determination.

**326 IAC 2-6 (Emission Reporting)**

Since this source is located in Lake County, and has a potential to emit NO<sub>x</sub> and VOC greater than or equal to twenty-five (25) tons per year, an emission statement covering the previous calendar year must be submitted by July 1 of each year. The emission statement shall contain, at a minimum, the information specified in 326 IAC 2-6-4.

**326 IAC 6.8 (Particulate Matter Limitations for Lake County)**

Pursuant to 326 IAC 6.8-1-2(b)(3), particulate matter emissions from gaseous fuel-fired steam generators shall not exceed 0.01 grains per dry standard cubic foot (dscf).

Package Boiler #1 shall burn natural gas only. The emission factors, for the combustion of natural gas, from the EPA emission factor listing (FIRE Version 5.0) predict particulate matter emissions to be within this limitation (see Appendix A – calculations).

**326 IAC 12-1 (New Source Performance Standards – General Provisions)**

Package Boiler #1 is subject to 326 IAC 12-1 (New Source Performance Standards). 326 IAC 12-1 incorporates by reference 40 CFR 60.40b, Subpart Db. The Permittee will comply with the provisions of 40 CFR 60.40b, Subpart Db, as detailed in the Federal Rule Applicability section above.

**Compliance Determination and Monitoring Requirements**

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with all applicable state and federal rules on a continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, Compliance Determination Requirements are included in the permit. The Compliance Determination Requirements in Section D of the permit are those conditions that are found directly within state and federal rules and the violation of which serves as grounds for enforcement action.

If the Compliance Determination Requirements are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also in Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

Package Boiler #1 has applicable compliance determination conditions as specified below:

- (a) Pursuant to the federal rules listed above, compliance with the nitrogen oxide (NOx) limitations under the New Source Performance Standards (NSPS) in 40 CFR 60 and the carbon monoxide (CO) limitations under the National Emission Standards for Hazardous Pollutants (NESHAP) in 40 CFR 63 shall be determined through performance evaluations and continuous operation of the monitoring systems required under each rule.
- (b) Related notifications, recordkeeping, and reporting are also required for the above initial and continuous compliance determinations.

Emission Unit	Control Device	Timeframe for Testing	Pollutant	Frequency of Testing	Limit or Requirement
Package Boiler #1	none	180 days	NOx	Initial performance test for NOx	0.1 lbs/MMBtu
CEMS		180 days	CO	Initial performance evaluation of CEMS	400 ppm

The compliance monitoring requirements applicable to this modification are as follows:

- (c) Package Boiler #1 has applicable compliance monitoring conditions as specified below:
  - (1) For the NSPS NOx limitation, the source must install, operate, and maintain a continuous emission monitoring system (CEMS) and submit a quarterly report of the 30-day rolling average of NOx emissions no later than 30 days after the quarter being reported.
  - (2) For the NESHAP CO limitations, the source must install, operate, and maintain a continuous emission monitoring system (CEMS) and submit a semiannual report of the 30-day rolling average of CO emissions no later than 30 days after the semiannual period being reported.

These monitoring conditions are necessary to demonstrate continuing compliance with the standards in the federal rules.

## Revisions and Updates

The following revisions and updates have been made to this Part 70 permit. Deleted language appears as ~~strikethroughs~~ and new language appears in **bold**. The Table of Contents has been corrected accordingly:

- 1.** On page 17, in Section B, General Conditions, the permit number has been added to Condition B.2 as follows to specifically identify the permit to which the condition applies:

B.2 Permit Term [326 IAC 2-7-5(2)] [326 IAC 2-1.1-9.9]

This permit (**T089-7994-00203**) is issued for a fixed term of five (5) years from the issuance date of this permit, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

- 2.** On page 18, in Section B, General Conditions, the following has been deleted from part (a) in the Annual Compliance Certification Condition B.9:

B.9 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The initial certification shall cover the time period from the date of final permit issuance through December 31 of the same year. All subsequent certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted ~~in letter form~~ no later than April 15 of each year to:

- 3.** On page 19, in Section B, General Conditions, in the Preventive Maintenance Condition B.10, part (b) has been deleted and (c) and (d) have been re-designated (b) and (c):

- ~~(b) The Permittee shall implement the PMPs, including any required record keeping, as necessary to ensure that failure to implement a PMP does not cause or contribute to an exceedance of any limitation on emissions or potential to emit.~~

- ~~(e)~~ **(b)** A copy of the PMPs shall be submitted to IDEM, OAQ, and HDEM upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ, and HDEM. IDEM, OAQ, and HDEM may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or is the primary contributor to an exceedance of any limitation on emissions or potential to emit. The PMP does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- ~~(d)~~ **(c)** To the extent the Permittee is required by 40 CFR 60/63 to have an Operation, Maintenance, and Monitoring (OMM) Plan for a unit, such plan is deemed to satisfy the PMP requirements of 326 IAC 1-6-3 for that unit.

- 4.** On page 20, in Section B, General Conditions, in the Emergency Provisions Condition B.11, the IDEM phone numbers have been corrected as follows:

(IDEM)  
Telephone Number: 1-800-451-6027 (ask for Office of Air Quality,  
Compliance Section), or

Telephone Number: 317-233-~~5674~~ **0178** (ask for Compliance Section)  
Facsimile Number: 317-233-~~5967~~ **6865**

**5.** On page 28, in Section B, General Conditions, Indiana was required to incorporate credible evidence provisions into state rules consistent with the SIP call published by U.S. EPA in 1997 (62 FR 8314). Indiana has incorporated the credible evidence provision in 326 IAC 1-1-6. This rule is effective March 16, 2005; therefore, the older condition was replaced with the condition that reflects this as follows:

B.24 Credible Evidence [326 IAC 2-7-5(3)][326 IAC 2-7-6][62 FR 8314] **[326 IAC 1-1-6]**

~~Notwithstanding the conditions of this permit that state specific methods that may be used to demonstrate compliance with, or a violation of, applicable requirements, any person (including the Permittee) may also use other credible evidence to demonstrate compliance with, or a violation of, any term or condition of this permit.~~

**For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of any condition of this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether the Permittee would have been in compliance with the condition of this permit if the appropriate performance or compliance test or procedure had been performed.**

**6.** On page 37 and 38, in Section C, Source Operation Conditions, recordkeeping and reporting requirements have been revised to include new requirements for major NSR sources. Also additional instructions are being added to address when recordkeeping shall be implemented if it is not already required.

C.22 General Record Keeping Requirements  
[326 IAC 2-7-5(3)] [326 IAC 2-7-6] **[326 IAC 2-2] [326 IAC 2-3]**

- (a) Records of all required monitoring data, reports and support information required by this Permit shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be physically present or electronically accessible at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or HDEM makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or HDEM within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.
- (c) **If there is a reasonable possibility that a “project” (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, other than projects at a Clean Unit, which is not part of a “major modification” (as defined in 326 IAC 2-2-1 (ee) and/or 326 IAC 2-3-1 (z)) may result in significant emissions increase and the Permittee elects to utilize the “projected actual emissions” (as defined in 326 IAC 2-2-1 (rr) and/or 326 IAC 2-3-1 (mm)), the Permittee shall comply with following:**
  - (1) **Before beginning actual construction of the “project” (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, document and maintain the following records:**
    - (A) **A description of the project.**

- (B) **Identification of any emissions unit whose emissions of a regulated new source review pollutant could be affected by the project.**
- (C) **A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including:**
  - (i) **Baseline actual emissions;**
  - (ii) **Projected actual emissions;**
  - (iii) **Amount of emissions excluded under section 326 IAC 2-2-1(rr)(2)(A)(iii) and/or 326 IAC 2-3-1(mm)(2)(A)(3); and**
  - (iv) **An explanation for why the amount was excluded, and any netting calculations, if applicable.**
- (2) **Monitor the emissions of any regulated NSR pollutant that could increase as a result of the project and that is emitted by any existing emissions unit identified in (1)(B) above; and**
- (3) **Calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five (5) years following resumption of regular operations after the change, or for a period of ten (10) years following resumption of regular operations after the change if the project increases the design capacity of or the potential to emit that regulated NSR pollutant at the emissions unit.**

C.23 General Reporting Requirements  
[326 IAC 2-7-5(3)(C)] [326 IAC 2-1.1-11] [326 IAC 2-2] [326 IAC 2-3]

- (a) The ~~source~~ **Permittee** shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:  
  
Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204  
  
and  
  
Hammond Department of Environmental Management  
5925 Calumet Avenue, Room 304  
Hammond, Indiana 46320
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, and HDEM on or before the date it is due.
- (d) Unless otherwise specified in this permit, all reports required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. All reports do require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period. Reporting periods are based on calendar years.
- (f) **If the Permittee is required to comply with the recordkeeping provisions of (c) in Section C- General Record Keeping Requirements for any “project” (as defined in 326 IAC 2-2-1 (qq) and/or 326 IAC 2-3-1 (ll)) at an existing emissions unit, and the project meets the following criteria, then the Permittee shall submit a report to IDEM, OAQ and HDEM:**
  - (1) **The annual emissions, in tons per year, from the project identified in (c)(1) in Section C- General Record Keeping Requirements exceed the baseline actual emissions, as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(i), by a significant amount, as defined in 326 IAC 2-2-1 (xx) and/or 326 IAC 2-3-1 (qq), for that regulated NSR pollutant, and**
  - (2) **The emissions differ from the preconstruction projection as documented and maintained under Section C- General Record Keeping Requirements (c)(1)(C)(ii).**
- (g) **The report for project at an existing emissions unit shall be submitted within sixty (60) days after the end of the year and contain the following:**
  - (1) **The name, address, and telephone number of the major stationary source.**
  - (2) **The annual emissions calculated in accordance with (c)(2) and (3) in Section C- General Record Keeping Requirements.**
  - (3) **The emissions calculated under the actual-to-projected actual test stated in 326 IAC 2-2-2(d)(3) and/or 326 IAC 2-3-2(c)(3).**
  - (4) **Any other information that the Permittee deems fit to include in this report,**

Reports required in this part shall be submitted to:

**Indiana Department of Environmental Management  
Air Compliance Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204**

and

**Hammond Department of Environmental Management  
5925 Calumet Avenue, Room 304  
Hammond, Indiana 46320**

- (h) **The Permittee shall make the information required to be documented and maintained in accordance with (c) in Section C- General Record Keeping Requirements available for review upon a request for inspection by IDEM, OAQ and HDEM. The general public may request this information from the IDEM, OAQ and HDEM under 326 IAC 17.1.**

**7. On page 38 and 39, in Section C, the Part 2 MACT Application Submittal Requirement, C.25, has been removed as follows:**

## **Part 2 MACT Application Submittal Requirement**

~~C.25—Application Requirements for Section 112(j) of the Clean Air Act [40 CFR 63.52(e)] [40 CFR 63.56(a)] [40 CFR 63.9(b)] [326 IAC 2-7-12]~~

- ~~(a) — The Permittee shall submit a Part 2 MACT Application in accordance with 40 CFR 63.52(e)(1). The Part 2 MACT Application shall meet the requirements of 40 CFR 63.53(b).~~
- ~~(b) — Notwithstanding paragraph (a), the Permittee is not required to submit a Part 2 MACT Application if the Permittee no longer meets the applicability criteria of 40 CFR 63.50 by the application deadline in 40 CFR 63.52(e)(1). For example, the Permittee would not have to submit a Part 2 MACT Application if, by the application deadline:~~
- ~~(1) — The source is no longer a major source of hazardous air pollutants, as defined in 40 CFR 63.2;~~
- ~~(2) — The source no longer includes one or more units in an affected source category for which the U.S. EPA failed to promulgate an emission standard by May 15, 2002; or~~
- ~~(3) — The MACT standard or standards for the affected source categories included at the source are promulgated.~~
- ~~(c) — Notwithstanding paragraph (a), pursuant to 40 CFR 63.56(a), the Permittee shall comply with an applicable promulgated MACT standard in accordance with the schedule provided in the MACT standard if the MACT standard is promulgated prior to the Part 2 MACT Application deadline or prior to the issuance of a permit with a case-by-case Section 112(j) MACT determination. The MACT requirements include the applicable General Provisions requirements of 40 CFR 63, Subpart A. Pursuant to 40 CFR 63.9(b), the Permittee shall submit an initial notification not later than 120 days after the effective date of the MACT, unless the MACT specifies otherwise. The initial notification shall be submitted to:~~

~~Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Quality  
100 North Senate Avenue  
Indianapolis, Indiana 46204~~

~~and~~

~~United States Environmental Protection Agency, Region V  
Director, Air and Radiation Division  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590~~

~~and~~

~~Hammond Department of Environmental Management  
5925 Calumet Avenue, Room 304  
Hammond, Indiana 46320~~

<b>Other Proposed Changes</b>
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The changes listed below have been made to Part 70 Operating Permit No. T089-7994-00203. Deleted language appears as ~~strike throughs~~ and new language appears in **bold**:

During an annual source inspection conducted on October 25, 2005, it was discovered that the Loose Feed Silo (Unit ID: 200-06-G) had been converted to service as the Corn Screenings Silo. After review, it was determined that the change of service did not result in a change of emissions or the air pollution control device. Cargill submitted a request on November 8, 2005 to amend their Part 70 permit accordingly. It was agreed to make the following changes at this time:

**1.** On page 9, in Section A.2, Emission Units and Pollution Control Equipment Summary, the Loose Feed Silo name has been changed to Corn Screenings Silo as follows:

(w) ~~Loose Feed Silo~~ **Corn Screenings Silo** (Unit ID 200-06-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE200-06-G) that exhausts to stack S200-06-G.

**2.** On page 47, in Section D.3, in the Facility Description Box, the Loose Feed Silo name has been changed to Corn Screenings Silo as follows:

(w) ~~Loose Feed Silo~~ **Corn Screenings Silo** (Unit ID 200-06-G), installed October 2000. Particulate emissions are controlled by a dust collector (CE200-06-G) that exhausts to stack S200-06-G.

**3.** On page 49, in Condition D.3.2, the Loose Feed Silo name has been changed to Corn Screenings Silo as follows:

(w)	<del>Loose Feed Silo</del> <b>Corn Screenings Silo</b> (200-06-G)	0.005	0.02
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**4.** On page 52, in Condition D.3.14, the Loose Feed Silo name has been changed to Corn Screenings Silo as follows:

(w)	<del>Loose Feed Silo</del> <b>Corn Screenings Silo</b> (200-06-G)	Dust Collector	0.1 - 6
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On March 21, 2006, based upon operating conditions for the past year and design engineering information, Cargill requested the following update to the operating pressure drop range for the Gluten Ring Dryer Scrubber System (121-01-G).

**5.** On page 52, the pressure drop range for the Gluten Dryer scrubber has been updated as follows:

(a)	Gluten Ring Dryer System (121-01-G)	Wet Scrubber	44-17 <b>12 - 19</b>
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**Proposed changes due to the installation of Package Boiler #1  
 and the removal of Boilers #1, #2, #6, #7, #8, and #10:**

**1. On page 11**, in Section A.2, Emission Units and Pollution Control Equipment Summary, Package Boiler #1 is added as follows:

**(d) Natural gas-fired Package Boiler #1 (Unit ID 89-03-U), installed in 2006, with a maximum heat input capacity of 274 million Btu/hr, and exhausting to stack S89-03-U. Under NSPS 40 CFR 60 Subpart Db, Package Boiler #1 is a steam-generating unit with a heat input capacity greater than 100 million Btu/hr. Under NESHAP 40 CFR 63 Subpart DDDDD, Package Boiler #1 is an industrial boiler in the large gaseous fuel subcategory.**

**2. On page 11**, in Section A.2, Boilers 7, 8, and 10, ~~(d)~~, ~~(e)~~, and ~~(f)~~, have been re-lettered to **(e), (f), and (g)**.

**3. On page 55**, in Section D.4, in the Facility Description Box, the Utility Area description has been updated and Package Boiler #1 has been added as follows. Boilers 7, 8, and 10, ~~(d)~~, ~~(e)~~, and ~~(f)~~, have been re-lettered to **(e), (f), and (g)**.

The Utility area includes ~~six (6)~~ **the following** boilers used to supply steam for plant processes. A small rental, natural gas-fired boiler is used when all boilers are down for maintenance.

**(d) Natural gas-fired Package Boiler #1 (Unit ID 89-03-U), installed in 2006, with a maximum heat input capacity of 274 million Btu/hr, and exhausting to stack S89-03-U. Under NSPS 40 CFR 60 Subpart Db, Package Boiler #1 is a steam-generating unit with a heat input capacity greater than 100 million Btu/hr. Under NESHAP 40 CFR 63 Subpart DDDDD, Package Boiler #1 is an industrial boiler in the large gaseous fuel subcategory.**

**4. On page 55**, Condition D.4.1 has been corrected to reflect a new rule cite. 326 IAC 6-1 has been repealed and the new Lake County particulate rule is 326 IAC 6.8. Also, the Unit IDs for Boilers #1 and #2 have been added to avoid confusion with the new boiler.

D.4.1 Particulate Matter less than 10 microns in diameter (PM10) [~~326 IAC 6-1-10.1(h)~~]  
**[326 IAC 6.8]**

Pursuant to ~~326 IAC 6-1-10.1 (Lake County PM10 Emission Requirements)~~ **326 IAC 6.8-6 (Lake County: Combustion Sources; Natural Gas)**, ~~subsection (h), section 4,~~ Boilers #1 and #2 shall fire natural gas only and emissions of particulate matter less than ten microns in diameter (PM10) shall be limited to the following.

Unit ID	PM10 Limit (lbs/MMBtu)	PM10 Limit (lbs/hr)
Boiler #1 (10-01-U)	0.003	0.288
Boiler #2 (10-02-U)	0.003	0.468

**5. On page 56**, Condition D.4.2 has been corrected as follows to reflect the new rule cite for particulate matter in Lake County:

**D.4.2 Particulate Matter less than 10 microns in diameter (PM10) [~~326 IAC 6-1-10.1(d)~~]  
[326 IAC 6.8]**

Pursuant to 326 IAC ~~6-1-10.1~~ **6.8-2** (Lake County: PM10 Emission Requirements), ~~subsection (d)~~ **section 8**, emissions of particulate matter less than ten microns in diameter (PM10) shall be limited to the following.

Unit ID	PM10 Limit
Stack Serving Boilers 6 & 7	30.3 lbs/hr
Stack Serving Boilers 8 & 10	22.7 lbs/hr

**6.** On page 56, in Section D.4, under Emissions Limitation and Standards, the PM10 limitation for Package Boiler #1 is added as D.4.3 as follows: Existing conditions ~~D.4.3~~ and ~~D.4.4~~ were re-numbered **D.4.4** and **D.4.5**.

**D.4.3 Particulate Matter Limitations for Lake County [326 IAC 6.8]**

**Pursuant to 326 IAC 6.8-1-2(b)(3), Package Boiler #1 shall burn natural gas only and particulate matter emissions shall not exceed 0.01 grains per dry standard cubic foot (dscf).**

**7.** On page 56, in section D.4, under Compliance Determination Requirements, ~~D.4.5~~ is re-numbered to **D.4.6** and the reference to condition ~~D.4.3~~ is re-numbered to **D.4.4**.

~~D.4.5~~ **D.4.6 Sulfur Dioxide Emissions and Sulfur Content [326 IAC 3-7-4]**

Compliance with Condition ~~D.4.3~~ **D.4.4** shall be determined utilizing one of the.....

**8.** On page 57, in Section D.4, under Compliance Determination Requirements, Condition D.4.7 is added as follows. D.4.7(c) has been added because those conditions will not apply after the removal of the existing boilers and because fuel oil is not used anymore.

**D.4.7 Operational Requirements [326 IAC 2-7-5(1)]**

- (a) **Compliance with the particulate matter limitation in Condition D.4.3 for Package Boiler #1 shall be determined by the combustion of natural gas only.**
- (b) **Boilers #1, #2, #6, #7, #8, and #10 shall cease operation and be permanently decommissioned when Package Boiler #1 becomes operational.**
- (c) **Upon cessation of operation of Boilers #1, #2, #6, #7, #8, and #10, Conditions D.4.1, D.4.2, D.4.4, D.4.6, D.4.8, D.4.9, and D.4.10(a) will not be applicable.**

**9.** On page 57, in Section D.4, under Compliance Monitoring Requirements, the Visible Emissions Notations condition is re-numbered from ~~D.4.6~~ to **D.4.8**.

**10.** On page 57, in Section D.4, the record keeping and reporting conditions and the condition references have been re-numbered as follows:

~~D.4.7~~ **D.4.9 Record Keeping Requirements**

- (a) In accordance with 326 IAC 7-4-1.1(c)(1)(B)(i) and in order to document compliance with Condition ~~D.4.3~~ **D.4.4**, the Permittee shall maintain records of the following for each hour in which any boiler operates on fuel oil.
  - (1) Average sulfur content
  - (2) Fuel oil usage
  - (3) Boiler operating load
- (b) To document compliance with Condition ~~D.4.6~~ **D.4.8**, the Permittee shall maintain records of the visible emission notations (while burning fuel oil) of the boiler stack exhausts.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

~~D.4.8~~ **D.4.10** Reporting Requirements

- (a) In accordance with 326 IAC 7-2-1(c)(3) and 326 IAC 7-4-1.1(c)(1)(B)(ii), the Permittee shall submit a report to the department within thirty (30) days after the end of each calendar quarter. The report shall also contain the records required in Condition ~~D.4.7~~ **D.4.9** for Boilers 6, 7, 8, and 10, while burning fuel oil, including a calculation of the total sulfur dioxide emissions from all boilers for each hour.
- (b) The natural gas boiler certification 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 its equivalent, within thirty (30) days after the end of the calendar quarter being reported. The natural gas-fired boiler certification does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

**11. Starting on page 58, all of the following has been added** to Section D.4 due to the applicability of Package Boiler #1 to the New Source Performance Standards (NSPS) for Industrial-Commercial-Institutional Steam Generating Units (40 CFR 60.40b, Subpart Db) and the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters (40 CFR 63.7480, Subpart DDDDD):

**New Source Performance Standards (NSPS) Requirements [326 IAC 2-7-5(1)]**

D.4.11 General Provisions Relating to the NSPS for Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40b, Subpart Db] [326 IAC 12-1] [40 CFR 60, Subpart A]  
Pursuant to 40 CFR 60.1, the Permittee shall comply with the provisions of 40 CFR 60, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 12-1-1 for Package Boiler #1 as specified in 40 CFR 60.40b, Subpart Db in accordance with the schedule in 40 CFR 60.40b, Subpart Db.

D.4.12 NSPS for Industrial-Commercial-Institutional Steam Generating Units Requirements [40 CFR 60.40b, Subpart Db] [326 IAC 12-1]  
Pursuant to 40 CFR 60.40b, Subpart Db, the Permittee shall comply with the provisions of 40 CFR 60.40b, Subpart Db, which are incorporated by reference as 326 IAC 12-1, for Package Boiler #1 as specified as follows:

**§ 60.40b Applicability and delegation of authority.**

- (a) The affected facility to which this subpart applies is each steam generating unit that commences construction, modification, or reconstruction after June 19, 1984, and that has a heat input capacity from fuels combusted in the steam generating unit of greater than 29 MW (100 million Btu/hour).
- (j) Any affected facility meeting the applicability requirements under paragraph (a) of this section and commencing construction, modification, or reconstruction after June 19, 1986 is not subject to Subpart D (Standards of Performance for Fossil-Fuel-Fired Steam Generators, §60.40).

**§ 60.44b Standard for nitrogen oxides.**

(a) Except as provided under paragraphs (k) and (l) of this section, on and after the date on which the initial performance test is completed or is required to be completed under §60.8 of this part, whichever date comes first, no owner or operator of an affected facility that is subject to the provisions of this section and that combusts only coal, oil, or natural gas shall cause to be discharged into the atmosphere from that affected facility any gases that contain nitrogen oxides (expressed as NO<sub>2</sub>) in excess of the following emission limits:

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Fuel/Steam generating unit type	Nitrogen oxide emission limits ng/J(lb/million Btu) (expressed as NO <sub>2</sub> ) Heat input
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- (1) Natural gas and distillate oil, except (4):
  - (i) Low heat release rate.....43 (0.10)

(h) For purposes of paragraph (i) of this section, the nitrogen oxide standards under this section apply at all times including periods of startup, shutdown, or malfunction.

(i) Except as provided under paragraph (j) of this section, compliance with the emission limits under this section is determined on a 30-day rolling average basis.

**§ 60.46b Compliance and performance test methods and procedures for particulate matter and nitrogen oxides.**

(a) The particulate matter emission standards and opacity limits under §60.43b apply at all times except during periods of startup, shutdown, or malfunction. The nitrogen oxides emission standards under §60.44b apply at all times.

(c) Compliance with the nitrogen oxides emission standards under §60.44b shall be determined through performance testing under paragraph (e) or (f), or under paragraphs (g) and (h) of this section, as applicable.

(e) To determine compliance with the emission limits for nitrogen oxides required under §60.44b, the owner or operator of an affected facility shall conduct the performance test as required under §60.8 using the continuous system for monitoring nitrogen oxides under §60.48(b).

(1) For the initial compliance test, nitrogen oxides from the steam generating unit are monitored for 30 successive steam generating unit operating days and the 30-day average emission rate is used to determine compliance with the nitrogen oxides emission standards under §60.44b. The 30-day average emission rate is calculated as the average of all hourly emissions data recorded by the monitoring system during the 30-day test period.

**§ 60.48b Emission monitoring for particulate matter and nitrogen oxides.**

(b) Except as provided under paragraphs (g), (h), and (i) of this section, the owner or operator of an affected facility shall comply with either paragraphs (b)(1) or (b)(2) of this section.

(1) Install, calibrate, maintain, and operate a continuous monitoring system, and record the output of the system, for measuring nitrogen oxides emissions discharged to the atmosphere;

(c) The continuous monitoring systems required under paragraph (b) of this section shall be operated and data recorded during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.

(d) The 1-hour average nitrogen oxides emission rates measured by the continuous nitrogen oxides monitor required by paragraph (b) of this section and required under §60.13(h) shall be expressed in ng/J or lb/million Btu heat input and shall be used to calculate the average emission rates under §60.44b. The 1-hour averages shall be calculated using the data points required under §60.13(b). At least 2 data points must be used to calculate each 1-hour average.

(e) The procedures under §60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems.

(2) For affected facilities combusting coal, oil, or natural gas, the span value for nitrogen oxides is determined as follows:

Fuel	Span values for nitrogen oxides (PPM)
Natural gas.....	500

(f) When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.

**§ 60.49b Reporting and recordkeeping requirements.**

(a) The owner or operator of each affected facility shall submit notification of the date of initial startup, as provided by §60.7. This notification shall include:

(1) The design heat input capacity of the affected facility and identification of the fuels to be combusted in the affected facility,

(3) The annual capacity factor at which the owner or operator anticipates operating the facility based on all fuels fired and based on each individual fuel fired, and,

(b) The owner or operator of each affected facility subject to the sulfur dioxide, particulate matter, and/or nitrogen oxides emission limits under §§60.42b, 60.43b, and 60.44b shall submit to the Administrator the performance test data from the initial performance test and the performance evaluation of the CEMS using the applicable performance specifications in appendix B. The owner or operator of each affected facility described in §60.44b(j) or §60.44b(k) shall submit to the Administrator the maximum heat input capacity data from the demonstration of the maximum heat input capacity of the affected facility.

(d) The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.

(g) Except as provided under paragraph (p) of this section, the owner or operator of an affected facility subject to the nitrogen oxides standards under §60.44b shall maintain records of the following information for each steam generating unit operating day:

(1) Calendar date.

(2) The average hourly nitrogen oxides emission rates (expressed as NO<sub>2</sub>) (ng/J or lb/million Btu heat input) measured or predicted.

(3) The 30-day average nitrogen oxides emission rates (ng/J or lb/million Btu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days.

(4) Identification of the steam generating unit operating days when the calculated 30-day average nitrogen oxides emission rates are in excess of the nitrogen oxides emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken.

(5) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken.

(6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data.

(7) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted.

(8) Identification of the times when the pollutant concentration exceeded full span of the continuous monitoring system.

(9) Description of any modifications to the continuous monitoring system that could affect the ability of the continuous monitoring system to comply with Performance Specification 2 or 3.

(10) Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1.

(i) The owner or operator of any affected facility subject to the continuous monitoring requirements for nitrogen oxides under §60.48(b) shall submit reports containing the information recorded under paragraph (g) of this section.

(o) All records required under this section shall be maintained by the owner or operator of the affected facility for a period of 2 years following the date of such record.

(v) The owner or operator of an affected facility may submit electronic quarterly reports for SO<sub>2</sub> and/or NO<sub>x</sub> and/or opacity in lieu of submitting the written reports required under paragraphs (h), (i), (j), (k) or (l) of this section. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format.

(w) The reporting period for the reports required under this subpart is each 6 month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.

#### D.4.13 One Time Deadlines Relating to NSPS 60.40b, Subpart Db

(a) Pursuant to §60.46b(e), the Permittee must conduct the initial performance test for Package Boiler #1 no later than 180 days after the initial start-up.

(b) Pursuant to §60.48b(e), the Permittee must install the NO<sub>x</sub> CEM prior to the performance test.

**National Emission Standards for Hazardous Air Pollutants (NESHAP) Requirements  
[326 IAC 2-7-5(1)]**

D.4.14 General Provisions Relating to NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR 63.7565, Subpart DDDDD] [326 IAC 20-1] [40 CFR 63, Subpart A]

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Pursuant to 40 CFR 63.7565, the Permittee shall comply with the provisions of 40 CFR 63, Subpart A – General Provisions, which are incorporated by reference as 326 IAC 20-1-1 for Package Boiler #1 as specified in Table 10 of 40 CFR 63, Subpart DDDDD in accordance with the schedule in 40 CFR 63, Subpart DDDDD.

D.4.15 NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters Requirements [40 CFR 63.7480, Subpart DDDDD]

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Pursuant to 40 CFR 63, Subpart DDDDD, the Permittee shall comply with the provisions of 40 CFR 63, Subpart DDDDD, for Package Boiler #1 as specified as follows:

**§ 63.7480 What is the purpose of this subpart?**

This subpart establishes national emission limits and work practice standards for hazardous air pollutants (HAP) emitted from industrial, commercial, and institutional boilers and process heaters. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limits and work practice standards.

**§ 63.7485 Am I subject to this subpart?**

You are subject to this subpart if you own or operate an industrial, commercial, or institutional boiler or process heater as defined in §63.7575 that is located at, or is part of, a major source of HAP as defined in §63.2 or §63.761 (40 CFR part 63, subpart HH, National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities), except as specified in §63.7491.

**§ 63.7490 What is the affected source of this subpart?**

(a) This subpart applies to new, reconstructed, or existing affected sources as described in paragraphs (a)(1) and (2) of this section.

(2) The affected source of this subpart is each new or reconstructed industrial, commercial, or institutional boiler or process heater located at a major source as defined in §63.7575.

(b) A boiler or process heater is new if you commence construction of the boiler or process heater after January 13, 2003, and you meet the applicability criteria at the time you commence construction.

**§ 63.7495 When do I have to comply with this subpart?**

(a) If you have a new or reconstructed boiler or process heater, you must comply with this subpart by November 12, 2004 or upon startup of your boiler or process heater, whichever is later.

(d) You must meet the notification requirements in §63.7545 according to the schedule in §63.7545 and in subpart A of this part. Some of the notifications must be submitted before you are required to comply with the emission limits and work practice standards in this subpart.

**§ 63.7499 What are the subcategories of boilers and process heaters?**

The subcategories of boilers and process heaters are large solid fuel, limited use solid fuel, small solid fuel, large liquid fuel, limited use liquid fuel, small liquid fuel, large gaseous fuel, limited use gaseous fuel, and small gaseous fuel. Each subcategory is defined in §63.7575.

**§ 63.7500 What emission limits, work practice standards, and operating limits must I meet?**

(a) You must meet the requirements in paragraphs (a)(1) and (2) of this section.

(1) You must meet each emission limit and work practice standard in Table 1 to this subpart that applies to your boiler or process heater, except as provided under §63.7507.

(b) As provided in §63.6(g), EPA may approve use of an alternative to the work practice standards in this section.

**§ 63.7505 What are my general requirements for complying with this subpart?**

(a) You must be in compliance with the emission limits (including operating limits) and the work practice standards in this subpart at all times, except during periods of startup, shutdown, and malfunction.

(b) You must always operate and maintain your affected source, including air pollution control and monitoring equipment, according to the provisions in §63.6(e)(1)(i).

(c) You can demonstrate compliance with any applicable emission limit using fuel analysis if the emission rate calculated according to §63.7530(d) is less than the applicable emission limit. Otherwise, you must demonstrate compliance using performance testing.

(d) If you demonstrate compliance with any applicable emission limit through performance testing, you must develop a site-specific monitoring plan according to the requirements in paragraphs (d)(1) through (4) of this section. This requirement also applies to you if you petition the EPA Administrator for alternative monitoring parameters under §63.8(f).

(1) For each continuous monitoring system (CMS) required in this section, you must develop and submit to the EPA Administrator for approval a site-specific monitoring plan that addresses paragraphs (d)(1)(i) through (iii) of this section. You must submit this site-specific monitoring plan at least 60 days before your initial performance evaluation of your CMS.

(i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected process unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device);

(ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems; and

(iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations).

(2) In your site-specific monitoring plan, you must also address paragraphs (d)(2)(i) through (iii) of this section.

(i) Ongoing operation and maintenance procedures in accordance with the general requirements of §63.8(c)(1), (c)(3), and (c)(4)(ii);

(ii) Ongoing data quality assurance procedures in accordance with the general requirements of §63.8(d); and

(iii) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of §63.10(c), (e)(1), and (e)(2)(i).

(3) You must conduct a performance evaluation of each CMS in accordance with your site-specific monitoring plan.

(4) You must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan.

(e) If you have an applicable emission limit or work practice standard, you must develop and implement a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in §63.6(e)(3).

**§ 63.7510 What are my initial compliance requirements and by what date must I conduct them?**

(a) For affected sources that elect to demonstrate compliance with any of the emission limits of this subpart through performance testing, your initial compliance requirements include conducting performance tests according to §63.7520 and Table 5 to this subpart, conducting a fuel analysis for each type of fuel burned in your boiler or process heater according to §63.7521 and Table 6 to this subpart, establishing operating limits according to §63.7530 and Table 7 to this subpart, and conducting CMS performance evaluations according to §63.7525.

(c) For affected sources that have an applicable work practice standard, your initial compliance requirements depend on the subcategory and rated capacity of your boiler or process heater. If your boiler or process heater is in any of the limited use subcategories or has a heat input capacity less than 100 MMBtu per hour, your initial compliance demonstration is conducting a performance test for carbon monoxide according to Table 5 to this subpart. If your boiler or process heater is in any of the large subcategories and has a heat input capacity of 100 MMBtu per hour or greater, your initial compliance demonstration is conducting a performance evaluation of your continuous emission monitoring system for carbon monoxide according to §63.7525(a).

(g) If your new or reconstructed affected source commences construction or reconstruction after November 12, 2004, you must demonstrate initial compliance with the promulgated emission limits and work practice standards no later than 180 days after startup of the source.

**§ 63.7525 What are my monitoring, installation, operation, and maintenance requirements?**

(a) If you have an applicable work practice standard for carbon monoxide, and your boiler or process heater is in any of the large subcategories and has a heat input capacity of 100 MMBtu per hour or greater, you must install, operate, and maintain a continuous emission monitoring system (CEMS) for carbon monoxide according to the procedures in paragraphs (a)(1) through (6) of this section by the compliance date specified in §63.7495.

(1) Each CEMS must be installed, operated, and maintained according to Performance Specification (PS) 4A of 40 CFR part 60, appendix B, and according to the site-specific monitoring plan developed according to §63.7505(d).

(2) You must conduct a performance evaluation of each CEMS according to the requirements in §63.8 and according to PS 4A of 40 CFR part 60, appendix B.

(3) Each CEMS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

(4) The CEMS data must be reduced as specified in §63.8(g)(2).

(5) You must calculate and record a 30-day rolling average emission rate on a daily basis. A new 30-day rolling average emission rate is calculated as the average of all of the hourly CO emission data for the preceding 30 operating days.

(6) For purposes of calculating data averages, you must not use data recorded during periods of monitoring malfunctions, associated repairs, out-of-control periods, required quality assurance or control activities, or when your boiler or process heater is operating at less than 50 percent of its rated capacity. You must use all the data collected during all other periods in assessing compliance. Any period for which the monitoring system is out of control and data are not available for required calculations constitutes a deviation from the monitoring requirements.

(c) If you have an operating limit that requires the use of a CMS, you must install, operate, and maintain each continuous parameter monitoring system (CPMS) according to the procedures in paragraphs (c)(1) through (5) of this section by the compliance date specified in §63.7495.

(1) The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period. You must have a minimum of four successive cycles of operation to have a valid hour of data.

(2) Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), you must conduct all monitoring in continuous operation at all times that the unit is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

(3) For purposes of calculating data averages, you must not use data recorded during monitoring malfunctions, associated repairs, out of control periods, or required quality assurance or control activities. You must use all the data collected during all other periods in assessing compliance. Any period for which the monitoring system is out-of-control and data are not available for required calculations constitutes a deviation from the monitoring requirements.

(4) Determine the 3-hour block average of all recorded readings, except as provided in paragraph (c)(3) of this section.

(5) Record the results of each inspection, calibration, and validation check.

(d) If you have an operating limit that requires the use of a flow measurement device, you must meet the requirements in paragraphs (c) and (d)(1) through (4) of this section.

(1) Locate the flow sensor and other necessary equipment in a position that provides a representative flow.

(2) Use a flow sensor with a measurement sensitivity of 2 percent of the flow rate.

(3) Reduce swirling flow or abnormal velocity distributions due to upstream and downstream disturbances.

(4) Conduct a flow sensor calibration check at least semiannually.

(e) If you have an operating limit that requires the use of a pressure measurement device, you must meet the requirements in paragraphs (c) and (e)(1) through (6) of this section.

(1) Locate the pressure sensor(s) in a position that provides a representative measurement of the pressure.

(2) Minimize or eliminate pulsating pressure, vibration, and internal and external corrosion.

(3) Use a gauge with a minimum tolerance of 1.27 centimeters of water or a transducer with a minimum tolerance of 1 percent of the pressure range.

(4) Check pressure tap pluggage daily.

(5) Using a manometer, check gauge calibration quarterly and transducer calibration monthly.

(6) Conduct calibration checks any time the sensor exceeds the manufacturer's specified maximum operating pressure range or install a new pressure sensor.

**§ 63.7535 How do I monitor and collect data to demonstrate continuous compliance?**

(a) You must monitor and collect data according to this section and the site-specific monitoring plan required by §63.7505(d).

(b) Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), you must monitor continuously (or collect data at all required intervals) at all times that the affected source is operating.

(c) You may not use data recorded during monitoring malfunctions, associated repairs, or required quality assurance or control activities in data averages and calculations used to report emission or operating levels. You must use all the data collected during all other periods in assessing the operation of the control device and associated control system. Boilers and process heaters that have an applicable carbon monoxide work practice standard and are required to install and operate a CEMS, may not use data recorded during periods when the boiler or process heater is operating at less than 50 percent of its rated capacity.

**§ 63.7540 How do I demonstrate continuous compliance with the emission limits and work practice standards?**

(a) You must demonstrate continuous compliance with each emission limit, operating limit, and work practice standard in Tables 1 through 4 to this subpart that applies to you according to the methods specified in Table 8 to this subpart and paragraphs (a)(1) through (10) of this section.

(10) If you have an applicable work practice standard for carbon monoxide, and you are required to install a CEMS according to §63.7525(a), then you must meet the requirements in paragraphs (a)(10)(i) through (iii) of this section.

(i) You must continuously monitor carbon monoxide according to §§63.7525(a) and 63.7535.

(ii) Maintain a carbon monoxide emission level below your applicable carbon monoxide work practice standard in Table 1 to this subpart at all times except during periods of startup, shutdown, malfunction, and when your boiler or process heater is operating at less than 50 percent of rated capacity.

(iii) Keep records of carbon monoxide levels according to §63.7555(b).

(b) You must report each instance in which you did not meet each emission limit, operating limit, and work practice standard in Tables 1 through 4 to this subpart that apply to you. You must also report each instance during a startup, shutdown, or malfunction when you did not meet each applicable emission limit, operating limit, and work practice standard. These instances are deviations from the emission limits and work practice standards in this subpart. These deviations must be reported according to the requirements in §63.7550.

(c) During periods of startup, shutdown, and malfunction, you must operate in accordance with the SSMP as required in §63.7505(e).

(d) Consistent with §§63.6(e) and 63.7(e)(1), deviations that occur during a period of startup, shutdown, or malfunction are not violations if you demonstrate to the EPA Administrator's satisfaction that you were operating in accordance with your SSMP. The EPA Administrator will determine whether deviations that occur during a period of startup, shutdown, or malfunction are violations, according to the provisions in §63.6(e).

#### **§ 63.7545 What notifications must I submit and when?**

(a) You must submit all of the notifications in §§63.7(b) and (c), 63.8 (e), (f)(4) and (6), and 63.9 (b) through (h) that apply to you by the dates specified.

(c) As specified in §63.9(b)(4) and (b)(5), if you startup your new or reconstructed affected source on or after November 12, 2004, you must submit an Initial Notification not later than 15 days after the actual date of startup of the affected source.

#### **§ 63.7550 What reports must I submit and when?**

(a) You must submit each report in Table 9 to this subpart that applies to you.

(b) Unless the EPA Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 9 to this subpart and according to the requirements in paragraphs (b)(1) through (5) of this section.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.7495 and ending on June 30 or December 31, whichever date is the first date that occurs at least 180 days after the compliance date that is specified for your source in §63.7495.

(2) The first compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.7495.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) Each subsequent compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(5) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), you may submit the first and subsequent compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (4) of this section.

(c) The compliance report must contain the information required in paragraphs (c)(1) through (11) of this section.

(1) Company name and address.

(2) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) The total fuel use by each affected source subject to an emission limit, for each calendar month within the semiannual reporting period, including, but not limited to, a description of the fuel and the total fuel usage amount with units of measure.

(5) A summary of the results of the annual performance tests and documentation of any operating limits that were reestablished during this test, if applicable.

(6) A signed statement indicating that you burned no new types of fuel. Or, if you did burn a new type of fuel, you must submit the calculation of chlorine input, using Equation 5 of §63.7530, that demonstrates that your source is still within its maximum chlorine input level established during the previous performance testing (for sources that demonstrate compliance through performance testing) or you must submit the calculation of HCl emission rate using Equation 9 of §63.7530 that demonstrates that your source is still meeting the emission limit for HCl emissions (for boilers or process heaters that demonstrate compliance through fuel analysis). If you burned a new type of fuel, you must submit the calculation of TSM input, using Equation 6 of §63.7530, that demonstrates that your source is still within its maximum TSM input level established during the previous performance testing (for sources that demonstrate compliance through performance testing), or you must submit the calculation of TSM emission rate using Equation 10 of §63.7530 that demonstrates that your source is still meeting the emission limit for TSM emissions (for boilers or process heaters that demonstrate compliance through fuel analysis). If you burned a new type of fuel, you must submit the calculation of mercury input, using Equation 7 of §63.7530, that demonstrates that your source is still within its maximum mercury input level established during the previous performance testing (for sources that demonstrate compliance through performance testing), or you must submit the calculation of mercury emission rate using Equation 11 of §63.7530 that demonstrates that your source is still meeting the emission limit for mercury emissions (for boilers or process heaters that demonstrate compliance through fuel analysis).

(7) If you wish to burn a new type of fuel and you can not demonstrate compliance with the maximum chlorine input operating limit using Equation 5 of §63.7530, the maximum TSM input operating limit using Equation 6 of §63.7530, or the maximum mercury input operating limit using Equation 7 of §63.7530, you must include in the compliance report a statement indicating the intent to conduct a new performance test within 60 days of starting to burn the new fuel.

(8) The hours of operation for each boiler and process heater that is subject to an emission limit for each calendar month within the semiannual reporting period. This requirement applies only to limited use boilers and process heaters.

(9) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your SSMP, the compliance report must include the information in §63.10(d)(5)(i).

(10) If there are no deviations from any emission limits or operating limits in this subpart that apply to you, and there are no deviations from the requirements for work practice standards in this subpart, a statement that there were no deviations from the emission limits, operating limits, or work practice standards during the reporting period.

(11) If there were no periods during which the CMSs, including CEMS, COMS, and CPMS, were out of control as specified in §63.8(c)(7), a statement that there were no periods during which the CMSs were out of control during the reporting period.

(e) For each deviation from an emission limitation and operating limit or work practice standard in this subpart occurring at an affected source where you are using a CMS to comply with that emission limit, operating limit, or work practice standard, you must include the information in paragraphs (c) (1) through (10) of this section and the information required in paragraphs (e) (1) through (12) of this section. This includes periods of startup, shutdown, and malfunction and any deviations from your site-specific monitoring plan as required in §63.7505(d).

(1) The date and time that each malfunction started and stopped and description of the nature of the deviation (*i.e.*, what you deviated from).

(2) The date and time that each CMS was inoperative, except for zero (low-level) and high-level checks.

(3) The date, time, and duration that each CMS was out of control, including the information in §63.8(c)(8).

(4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(5) A summary of the total duration of the deviation during the reporting period and the total duration as a percent of the total source operating time during that reporting period.

(6) A breakdown of the total duration of the deviations during the reporting period into those that are due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(7) A summary of the total duration of CMSs downtime during the reporting period and the total duration of CMS downtime as a percent of the total source operating time during that reporting period.

(8) An identification of each parameter that was monitored at the affected source for which there was a deviation, including opacity, carbon monoxide, and operating parameters for wet scrubbers and other control devices.

(9) A brief description of the source for which there was a deviation.

(10) A brief description of each CMS for which there was a deviation.

(11) The date of the latest CMS certification or audit for the system for which there was a deviation.

(12) A description of any changes in CMSs, processes, or controls since the last reporting period for the source for which there was a deviation.

(f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 40 CFR part 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a compliance report pursuant to Table 9 to this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the compliance report includes all required information concerning deviations from any emission limit, operating limit, or work practice requirement in this subpart, submission of the compliance report satisfies any obligation to report the same deviations in the semiannual monitoring report. However, submission of a compliance report does not otherwise

affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.

(g) If you operate a new gaseous fuel unit that is subject to the work practice standard specified in Table 1 to this subpart, and you intend to use a fuel other than natural gas or equivalent to fire the affected unit, you must submit a notification of alternative fuel use within 48 hours of the declaration of a period of natural gas curtailment or supply interruption, as defined in §63.7575. The notification must include the information specified in paragraphs (g)(1) through (5) of this section.

(1) Company name and address.

(2) Identification of the affected unit.

(3) Reason you are unable to use natural gas or equivalent fuel, including the date when the natural gas curtailment was declared or the natural gas supply interruption began.

(4) Type of alternative fuel that you intend to use.

(5) Dates when the alternative fuel use is expected to begin and end.

#### **§ 63.7555 What records must I keep?**

(a) You must keep records according to paragraphs (a)(1) through (3) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in §63.10(b)(2)(xiv).

(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.

(3) Records of performance tests, fuel analyses, or other compliance demonstrations, performance evaluations, and opacity observations as required in §63.10(b)(2)(viii).

(b) For each CEMS, CPMS, and COMS, you must keep records according to paragraphs (b)(1) through (5) of this section.

(1) Records described in §63.10(b)(2) (vi) through (xi).

(3) Previous (*i.e.*, superseded) versions of the performance evaluation plan as required in §63.8(d)(3).

(4) Request for alternatives to relative accuracy test for CEMS as required in §63.8(f)(6)(i).

(5) Records of the date and time that each deviation started and stopped, and whether the deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(c) You must keep the records required in Table 8 to this subpart including records of all monitoring data and calculated averages for applicable operating limits such as opacity, pressure drop, carbon monoxide, and pH to show continuous compliance with each emission limit, operating limit, and work practice standard that applies to you.

(d) For each boiler or process heater subject to an emission limit, you must also keep the records in paragraphs (d)(1) through (5) of this section.

(1) You must keep records of monthly fuel use by each boiler or process heater, including the type(s) of fuel and amount(s) used.

**§ 63.7560 In what form and how long must I keep my records?**

(a) Your records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1). You can keep the records off site for the remaining 3 years.

**§ 63.7565 What parts of the General Provisions apply to me?**

Table 10 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you.

**§ 63.7570 Who implements and enforces this subpart?**

(a) This subpart can be implemented and enforced by U.S. EPA, or a delegated authority such as your State, local, or tribal agency. If the EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency (as well as the U.S. EPA) has the authority to implement and enforce this subpart. You should contact your EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities listed in paragraphs (b)(1) through (5) of this section are retained by the EPA Administrator and are not transferred to the State, local, or tribal agency, however, the U.S. EPA retains oversight of this subpart and can take enforcement actions, as appropriate.

(1) Approval of alternatives to the non-opacity emission limits and work practice standards in §63.7500(a) and (b) under §63.6(g).

(2) Approval of alternative opacity emission limits in §63.7500(a) under §63.6(h)(9).

(3) Approval of major change to test methods in Table 5 to this subpart under §63.7(e)(2)(ii) and (f) and as defined in §63.90.

(4) Approval of major change to monitoring under §63.8(f) and as defined in §63.90.

(5) Approval of major change to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

**§ 63.7575 What definitions apply to this subpart?**

Terms used in this subpart are defined in the CAA, in §63.2 (the General Provisions), and in this section as follows:

*Annual capacity factor* means the ratio between the actual heat input to a boiler or process heater from the fuels burned during a calendar year, and the potential heat input to the boiler or process heater had it been operated for 8,760 hours during a year at the maximum steady state design heat input capacity.

*Boiler* means an enclosed device using controlled flame combustion and having the primary purpose of recovering thermal energy in the form of steam or hot water. Waste heat boilers are excluded from this definition.

*Deviation.* (1) Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

(i) Fails to meet any requirement or obligation established by this subpart including, but not limited to, any emission limit, operating limit, or work practice standard;

(ii) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(iii) Fails to meet any emission limit, operating limit, or work practice standard in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

(2) A deviation is not always a violation. The determination of whether a deviation constitutes a violation of the standard is up to the discretion of the entity responsible for enforcement of the standards.

*Federally enforceable* means all limitations and conditions that are enforceable by the EPA Administrator, including the requirements of 40 CFR parts 60 and 61, requirements within any applicable State implementation plan, and any permit requirements established under 40 CFR 52.21 or under 40 CFR 51.18 and 40 CFR 51.24.

*Fossil fuel* means natural gas, petroleum, coal, and any form of solid, liquid, or gaseous fuel derived from such materials.

*Fuel type* means each category of fuels that share a common name or classification. Examples include, but are not limited to, bituminous coal, subbituminous coal, lignite, anthracite, biomass, construction/demolition material, salt water laden wood, creosote treated wood, tires, residual oil. Individual fuel types received from different suppliers are not considered new fuel types except for construction/demolition material.

*Gaseous fuel* includes, but is not limited to, natural gas, process gas, landfill gas, coal derived gas, refinery gas, and biogas. Blast furnace gas is exempted from this definition.

*Heat input* means heat derived from combustion of fuel in a boiler or process heater and does not include the heat input from preheated combustion air, recirculated flue gases, or exhaust gases from other sources such as gas turbines, internal combustion engines, kilns, etc.

*Industrial boiler* means a boiler used in manufacturing, processing, mining, and refining or any other industry to provide steam, hot water, and/or electricity.

*Large gaseous fuel subcategory* includes any watertube boiler or process heater that burns gaseous fuels not combined with any solid fuels, burns liquid fuel only during periods of gas curtailment or gas supply emergencies, has a rated capacity of greater than 10 MMBtu per hour heat input, and has an annual capacity factor of greater than 10 percent.

*Natural gas* means:

(1) A naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in geologic formations beneath the earth's surface, of which the principal constituent is methane; or

(2) Liquid petroleum gas, as defined by the American Society for Testing and Materials in ASTM D1835-03a, "Standard Specification for Liquid Petroleum Gases" (incorporated by reference, see §63.14(b)).

*Period of natural gas curtailment or supply interruption* means a period of time during which the supply of natural gas to an affected facility is halted for reasons beyond the control of the facility. An increase in the cost or unit price of natural gas does not constitute a period of natural gas curtailment or supply interruption.

*Responsible official* means responsible official as defined in 40 CFR 70.2.

*Temporary boiler* means any gaseous or liquid fuel boiler that is designed to, and is capable of, being carried or moved from one location to another. A temporary boiler that remains at a location for more than 180 consecutive days is no longer considered to be a temporary boiler. Any temporary boiler that replaces a temporary boiler at a location and is intended to perform the same or similar function will be included in calculating the consecutive time period.

*Watertube boiler* means a boiler in which water passes through the tubes and hot gases of combustion pass over the outside surfaces of the tubes.

*Work practice standard* means any design, equipment, work practice, or operational standard, or combination thereof, that is promulgated pursuant to section 112(h) of the CAA.

The following tables to Subpart DDDDD apply:

**Table 1 to Subpart DDDDD of Part 63—Emission Limits and Work Practice Standards**

As stated in § 63.7500, you must comply with the following applicable emission limits and work practice standards:

If your boiler or process heater is in this subcategory . . .	For the following pollutants . . .	You must meet the following emission limits and work practice standards
7. New or reconstructed large gaseous fuel.	Carbon Monoxide.....	400 ppm by volume on a dry basis corrected to 3 percent oxygen (30-day rolling average for units 100 MMBtu/hr or greater,

**Table 8 to Subpart DDDDD of Part 63—Demonstrating Continuous Compliance**

As stated in § 63.7540, you must show continuous compliance with the emission limitations for affected sources according to the following:



the report must contain the information in § 63.7550(e); and

- d. If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your startup, shutdown, and malfunction plan, the compliance report must include the information in § 63.10(d)(5)(i)
    - a. Actions taken for the event; and
      - i. By fax or telephone within 2 working days after starting actions inconsistent with the plan; and
      - ii. By letter within 7 working days after the end of the event unless you have made alternative arrangements with the permitting authority.
    - b. The information in § 63.10(d)(5)(ii)
2. An immediate startup, shutdown, and malfunction report if you had a startup, shutdown, or malfunction during the reporting period that is not consistent with your startup, shutdown, and malfunction plan, and the source exceeds any applicable emission limitation in the relevant emission standard.

**Table 10 to Subpart DDDDD of Part 63—Applicability of General Provisions to Subpart DDDDD**

As stated in § 63.7565, you must comply with the applicable General Provisions according to the following:

Citation	Subject	Brief description	Applicable
§ 63.1.....	Applicability...	Initial Applicability Determination; Applicability After Standard Established; Permit Requirements; Extensions, Notifications.	Yes.
§ 63.2.....	Definitions.....	Definitions for Part 63 standards.	Yes.
§ 63.3.....	Units and Abbreviations...	Units and abbreviations for part 63 standards.	Yes.
§ 63.4.....	Prohibited Activities.....	Prohibited Activities; Compliance date; Circumvention, Severability.	Yes.
§ 63.5.....	Construction/ Reconstruction.	Applicability; applications; approvals.	Yes.

§ 63.6(a).....	Applicability...	GP apply unless compliance extension;	Yes.
§ 63.6(b) (1)-(4)	Compliance Dates for New and Reconstructed sources.	Standards apply at effective date; 3 years after effective date; upon startup; 10 years after construction or reconstruction commences for 112(f).	Yes.
§ 63.6(b) (5)....	Notification...	Must notify if commenced construction or reconstruction after proposal.	Yes.
§ 63.6(e) (1)-(2)	Operation & Maintenance.	Operate to minimize emissions at all times; and Correct malfunctions as soon as practicable; and Operation and maintenance requirements independently enforceable; information Administrator will use to determine if operation and maintenance requirements were met.	Yes.
§ 63.6(e) (3)....	Startup, Shutdown, and Malfunction Plan (SSMP).	Requirement for SSM and startup, shutdown, malfunction plan; and content of SSMP.	Yes.
§ 63.6(f) (1)....	Compliance Except During SSM.	Comply with emission standards at all times except during SSM.	Yes.
§ 63.6(f) (2)-(3)	Methods for Determining Compliance.	Compliance based on performance test, operation and maintenance plans, records, inspection.	Yes.
§ 63.6(g) (1)-(3)	Alternative.... Standard	Procedures for getting an alternative standard.	Yes.
§ 63.6(i) (1)-(14)	Compliance..... Extension	Procedures and criteria for Administrator to grant compliance extension.	Yes.
§ 63.6(j).....	Presidential Compliance Exemption.	President may exempt source category from requirement to comply with rule.	Yes.
§ 63.8(a) (1)....	Applicability of Monitoring Requirements.	Subject to all monitoring requirements in standard.	Yes.
§ 63.8(a) (2)....	Performance Specifications	Performance Specifications in appendix B of part 60 apply.	Yes.
§ 63.8(b) (1) (i)-(ii)	Monitoring.....	Must conduct monitoring according to standard unless Administrator approves alternative.	Yes.

§ 63.8(b)(2)-(3)	Multiple Effluents and Multiple Monitoring Systems.	Specific requirements for installing monitoring systems; and must install on each effluent before it is combined and before it is released to the atmosphere unless Administrator approves otherwise; and if more than one monitoring system on an emission point, must report all monitoring system results, unless one monitoring system is a backup.	Yes.
§ 63.8(c)(1)....	Monitoring System Operation and Maintenance.	Maintain monitoring system in a manner consistent with good air pollution control practices.	Yes.
§ 63.8(c)(1)(i)	Routine and Predictable SSM.	Maintain and operate CMS according to § 63.6(e)(1).	Yes.
§ 63.8(c)(1)(ii)	SSM not in SSMP	Must keep necessary parts available for routine repairs of CMSs.	Yes.
§ 63.8(c)(1)(iii)	Compliance with Operation and Maintenance Requirements.	Must develop and implement an SSMP for CMSs.	Yes.
§ 63.8(c)(2)-(3)	Monitoring System Installation.	Must install to get representative emission and parameter measurements; and must verify operational status before or at performance test.	Yes.
§ 63.8(c)(7)-(8)	Continuous Monitoring Systems Requirements.	Out-of-control periods, including reporting.	Yes.
§ 63.8(d)....	Continuous Monitoring Systems Quality Control.	Requirements for continuous monitoring systems quality control, including calibration, etc.; and must keep quality control plan on record for the life of the affected source. Keep old versions for 5 years after revisions.	Yes.
§ 63.8(e)....	Continuous monitoring systems Performance Evaluation.	Notification, performance evaluation test plan, reports.	Yes.
§ 63.8(f)(1)-(5)	Alternative Monitoring Method.	Procedures for Administrator to approve alternative monitoring.	Yes.
§ 63.9(a)....	Notification Requirements.	Applicability and State Delegation.	Yes.

§ 63.9(b) (1)-(5)	Initial Notifications	Submit notification 120 days after effective date; and Notification of intent to construct/reconstruct; and Notification of commencement of construct/reconstruct; Notification of startup; and Contents of each.	Yes.
§ 63.9(c)....	Request for Compliance Extension.	Can request if cannot comply by date or if installed BACT/LAER.	Yes.
§ 63.9(g)....	Additional Notifications When Using Continuous Monitoring Systems.	Notification of performance evaluation; and notification using continuous opacity monitoring system data; and notification that exceeded criterion for relative accuracy.	Yes.
§ 63.9(h) (1)-(6)	Notification of Compliance Status.	Contents; and due 60 days after end of performance test or other compliance demonstration, and when to submit to Federal vs. State authority.	Yes.
§ 63.9(i)....	Adjustment of Submittal Deadlines.	Procedures for Administrator to approve change in when notifications must be submitted.	Yes.
§ 63.9(j)....	Change in Previous Information.	Must submit within 15 days after the change.	Yes.
§ 63.10(a)....	Recordkeeping/Reporting	Applies to all, unless compliance extension; and when to submit to Federal vs. State authority; and procedures for owners of more than 1 source.	Yes.
§ 63.10(b) (1)	Recordkeeping/Reporting	General Requirements; and keep all records readily available and keep for 5 years.	Yes.
§ 63.10(b) (2) (i)-(v)	Records related to Startup, Shutdown, and Malfunction.	Occurrence of each of operation (process, equipment); and occurrence of each malfunction of air pollution equipment; and maintenance of air pollution control equipment; and actions during startup, shutdown, and malfunction.	Yes.
§ 63.10(b) (2) (vi) and (x-xi)	Continuous monitoring systems Records.	Malfunctions, inoperative, out-of-control; and calibration checks; and adjustments, maintenance.	Yes.

§ 63.10(b)(2)... (vii)-(ix)	Records.....	Measurements to demonstrate compliance with emission limitations; and performance test, performance evaluation, and visible emission observation results; and measurements to determine conditions of performance tests and performance evaluations.	Yes.
§ 63.10(b)(2)(xii)	Records...	Records when under waiver.	Yes.
§ 63.10(b)(2)(xiv)	Records...	All documentation supporting Initial Notification and Notification of Compliance Status.	Yes.
§ 63.10(b)(3)	Records...	Applicability Determinations.	Yes.
§ 63.10(c)(1), (5)-(8), (10)-(15)	Records...	Additional Records for continuous monitoring systems.	Yes.
§ 63.10(d)(1)...	General Reporting Requirements.	Requirement to report.....	Yes.
§ 63.10(d)(2)...	Report of Performance Test Results.	When to submit to Federal or State authority.	Yes.
§ 63.10(d)(4)...	Progress Reports	Must submit progress reports on schedule if under compliance extension.	Yes.
§ 63.10(d)(5)...	Startup, Shutdown, and Malfunction Reports.	Contents and submission...	Yes.
§ 63.10(e)(1)(2)	Additional continuous monitoring systems Reports.	Must report results for each CEM on a unit; and written copy of performance evaluation; and 3 copies of continuous opacity monitoring system performance evaluation.	Yes.
§ 63.10(f)...	Waiver for Recordkeeping/Reporting.	Procedures for Administrator to waive.	Yes.
§ 63.12....	Delegation	State authority to enforce standards.	Yes.
§ 63.13....	Addresses	Addresses where reports, notifications, and requests are sent.	Yes.
§ 63.14....	Incorporation by Reference	Test methods incorporated by reference.	Yes.
§ 63.15....	Availability of Information.	Public and confidential Information.	Yes.

D.4.16 One Time Deadlines Relating to NESHAP 63.7480, Subpart DDDDD

The Permittee shall comply with the following requirements by the dates listed:

Requirement	Rule Cite	Affected Facility	Deadline
Compliance with the Subpart	40 CFR 63.7495(a)	Package Boiler #1	Upon startup
Develop and submit to the EPA for approval a site-specific monitoring plan (SSMP)	40 CFR 63.7505(d)(1)	Package Boiler #1	at least 60 days before the initial performance evaluation of the CMS
Demonstrate initial compliance with the emission limits and work practice standards	40 CFR 63.7510(g)	Package Boiler #1	no later than 180 days after startup
Submit all of the notifications in §§63.7(b) and (c), 63.8 (e), (f)(4) and (6), and 63.9 (b) through (h) that apply by the dates specified.	40 CFR 63.7545(a)	Package Boiler #1	Dates specified in he above Table 10 to Subpart DDDDD of Part 63, applicable General Provisions.
Submit Initial Notification	40 CFR 63.7545(c)	Package Boiler #1	not later than 15 days after the actual startup

The remainder of the original permit has been re-paginated and the Table of Contents has been updated accordingly. Therefore, the modified part of the permit will be the entire permit. The original expiration date does not change due to this modification.

**Conclusion and Recommendation**

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Significant Source Modification No. 089-22309-00203 and Significant Permit Modification 089-22333-00203. The staff recommends to the Commissioner that this Part 70 Significant Source Modification and Significant Permit Modification be approved.

**Cargill, Inc.**  
 1100 Indianapolis Blvd.  
 Hammond, Indiana 46320

**Significant Source Modification 089-22309-00203**  
**Significant Permit Modification 089-22333-00203**

install new Package Boiler #1  
 remove existing Boiler #6

CALCULATIONS BY: Ronald Holder

YEAR OF DATA: review

NO. OF POINTS: 1

**\*\*NOTES\*\***

EF: EMISSION FACTOR  
 CE: CONTROL EFFICIENCY

MDR: MAXIMUM DESIGN RATE  
 MDC: MAXIMUM DESIGN CAPACITY

Ts: STACK DISCHARGE TEMPERATURE  
 UNITS FOR EMISSIONS ARE IN (TPY) EXCEPT WHERE GIVEN

**New Boiler Potential**

**Package Boiler #1 (89-03-U)**  
**(Natural Gas Combustion)**

Combustion Engineering Boiler MDC (mmBtu/hr): **274** HEAT CONTENT (Btu/cft): 1026 STACK ID (DIAM:HEIGHT): (4.6': 89')  
 Type 38VP2180 - Serial Number 65497-2 MDR (mmcft/hr): 0.2671 QTY BURNED (mmcft/yr): N/A FLOWRATE (ACFM): 69,137  
 CNTRL DEV: NONE NG only Ts(°F): 286

PERMITTED OPERATING HRS: **8760** hr/yr

SCC NO. 1-02-006-01			POTENTIAL EMISSIONS						ALLOWABLE	
POLLUTANT	EF(lbs/mmcf)	CE (%)	BEFORE CONTROL			AFTER CONTROL			(lbs/hr)	(TPY)
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	7.6	0	2.030	48.711	<b>8.890</b>	2.030	8.890	0.0048	0.00	0.00
PM10	7.6	0	2.030	48.711	<b>8.890</b>	2.030	8.890	0.0048	<b>4.21</b>	18.44
SOx	0.6	0	0.160	3.846	<b>0.702</b>	0.160	0.702	N/A	0.00	0.00
NOx	102	0	27.240	653.754	<b>119.310</b>	27.240	119.310	N/A	<b>27.40</b>	120.01
VOC	5.5	0	1.469	35.251	<b>6.433</b>	1.469	6.433	N/A	0.00	0.00
CO	84	0	22.433	538.386	<b>98.255</b>	22.433	98.255	N/A	0.00	0.00
LEAD	0.0005	0	0.000	0.003	<b>0.0006</b>	0.000	0.001	N/A	0.00	0.00

low NOx burner

NOx emission factor based on NSPS NOx limitation of 0.10 lbs/mmBtu.

0.10 lbs/mmBtu x 1020 Btu/cft = 102 lbs/mmcf

40 CFR 60, Subpart Db  
 40 CFR 63, Subpart DDDDD

PM10 326 IAC 6.8-1-2(b)(3) - 0.01 gr/dscf  
 NOx § 60.44b(a) - 0.10 lbs/mmBtu  
 CO 400 ppm (CEMS)

**Boiler #6 past actual**

**Boiler #6 (10-03-U)**  
**(Natural Gas Combustion)**

MDC (mmBtu/hr): **187** HEAT CONTENT (Btu/cft): 1020 STACK ID (DIAM:HEIGHT): (6': 165')  
 MDR (mmcft/hr): 0.1833 QTY BURNED (mmcft/yr): 1100 FLOWRATE (ACFM): 111,457  
 CNTRL DEV: NONE Ts(°F): 350

PERMITTED OPERATING HRS: **6000** hr/yr

SCC NO. 1-02-006-01			POTENTIAL EMISSIONS						ALLOWABLE	
POLLUTANT	EF(lbs/mmcf)	CE (%)	BEFORE CONTROL			AFTER CONTROL			(lbs/hr)	(TPY)
			(lbs/hr)	(lbs/day)	(TPY)	(lbs/hr)	(TPY)	(gr/dscf)		
PM	7.6	0	1.393	33.440	<b>4.180</b>	1.393	4.180	0.0022	0.000	0.000
PM10	3	0	0.550	13.200	<b>1.650</b>	0.550	1.650	0.0009	0.000	0.000
SOx	0.6	0	0.110	2.640	<b>0.330</b>	0.110	0.330	N/A	0.000	0.000
NOx	280	0	51.333	1,232.000	<b>154.000</b>	51.333	154.000	N/A	0.000	0.000
VOC	5.5	0	1.008	24.200	<b>3.025</b>	1.008	3.025	N/A	0.000	0.000
CO	84	0	15.400	369.600	<b>46.200</b>	15.400	46.200	N/A	0.000	0.000
LEAD	0.0005	0	0.000	0.002	<b>0.0003</b>	0.000	0.000	N/A	0.000	0.000

Past actual data based on 24-month high natural gas usage in past 10 years for existing Boiler #6.

Nov 1999 to Oct 2001 - approximately equivalent to 6000 hours of operation

	Contemporaneous	Decrease
PM	4.180	Removal of Boiler #6
PM10	1.650	
SOx	0.330	
NOx	154.000	
VOC	3.025	
CO	46.200	
Lead	0.000	

**Part 70 permit level determination**  
**PTE of new emission unit (Package Boiler #1)**

PM	8.890
PM10	8.890
SOx	0.702
NOx	119.310
VOC	6.433
CO	98.255
Lead	0.001

**326 IAC 2-7-10.5(f)**  
 significant source  
 modification  
**NOx > 25 tpy**

**Cargill Hammond Plant - No. 2 Boiler**

24-Month High - 10yrs back (Jan 95 - Dec 96)

Pollutant	Emission Factor (lb/MMcf)	Gas Usage (MMcf/yr)	Emissions (Tons/yr)	Annual Hours Operation Allowed by Decree	Emission Factor Allowed by Decree	Heat Input Capacity (MMBTU/hr)	Annual Gas Usage Allowed (MMcf/yr)	Annual Emissions Allowed by Decree (tons/yr)	Creditable Emissions (tons/yr)
VOC	5.50	620.24	1.706	8,760	5.50	160	1374.12	3.779	1.706
NO <sub>x</sub>	153.00	620.24	47.449	8,760	61.20	160	1374.12	42.048	42.048
Lead	0.0005	620.24	1.551E-04	8,760	0.0005	160	1374.12	3.435E-04	1.551E-04
Mercury	0.00026	620.24	8.063E-05	8,760	0.00026	160	1374.12	1.786E-04	8.063E-05
SO <sub>2</sub>	0.60	620.24	0.186	8,760	0.60	160	1374.12	0.412	0.186
CO	84.00	620.24	26.050	8,760	84.00	160	1374.12	57.713	26.050
Particulates	7.60	620.24	2.357	8,760	7.60	160	1374.12	5.222	2.357
PM <sub>10</sub>	3.06	620.24	0.949	8,760	3.06	160	1374.12	2.102	0.949

Emission factors from AP-42, Feb. 1998, Tables 1.4-1 through 1.4-4.

PM10 emission factor based on 0.003 lb/MMBtu permit limit. Assume all PM is PM10.

Manufacturer's (Coen) guaranteed NOx emission factor, 0.15 lb/MMBtu =====> 153 lbs/MMcf

**Cargill Hammond Plant - No. 8 Boiler**

24-Month High - 10yrs back (May 00 - April 02)

Pollutant	Emission Factor (lb/MMcf)	Gas Usage (MMcf/yr)	Emissions (Tons/yr)	Annual Hours Operation Allowed by Decree	Emission Factor Allowed by Decree	Heat Input Capacity (MMBTU/hr)	Annual Gas Usage Allowed (MMcf/yr)	Annual Emissions Allowed by Decree (tons/yr)	Creditable Emissions (tons/yr)
VOC	5.50	483.22	1.329	1,800	5.50	120	211.76	0.582	0.582
NO <sub>x</sub>	280.50	483.22	67.772	1,800	280.50	120	211.76	29.700	29.700
Lead	0.0005	483.22	1.208E-04	1,800	0.0005	120	211.76	5.294E-05	5.294E-05
Mercury	0.00026	483.22	6.282E-05	1,800	0.00026	120	211.76	2.753E-05	2.753E-05
SO <sub>2</sub>	0.60	483.22	0.145	1,800	0.60	120	211.76	0.064	0.064
CO	84.00	483.22	20.295	1,800	84.00	120	211.76	8.894	8.894
Particulates	7.60	483.22	1.836	1,800	7.60	120	211.76	0.805	0.805
PM <sub>10</sub>	3.06	483.22	0.739	1,800	3.06	120	211.76	0.324	0.324

Emission factors from AP-42, Feb. 1998, Tables 1.4-1 through 1.4-4.

PM10 emission factor based on 0.003 lb/MMBtu permit limit. Assume all PM is PM10.

Manufacturer's (Coen) guaranteed NOx emission factor, 0.275 lb/MMBtu =====> 280.5 lbs/MMcf

**Cargill Hammond Plant - No. 10 Boiler**

24-Month High - 10yrs back (Jan 95 - Dec 96)

Pollutant	Emission Factor (lb/MMcf)	Gas Usage (MMcf/yr)	Emissions (Tons/yr)	Annual Hours Operation Allowed by Decree	Emission Factor Allowed by Decree	Heat Input Capacity (MMBTU/hr)	Annual Gas Usage Allowed (MMcf/yr)	Annual Emissions Allowed by Decree (tons/yr)	Creditable Emissions (tons/yr)
VOC	5.50	559.44	1.538	1,800	5.50	120	211.76	0.582	0.582
NO <sub>x</sub>	280.50	559.44	78.461	1,800	280.50	120	211.76	29.700	29.700
Lead	0.0005	559.44	1.399E-04	1,800	0.0005	120	211.76	5.294E-05	5.294E-05
Mercury	0.00026	559.44	7.273E-05	1,800	0.00026	120	211.76	2.753E-05	2.753E-05
SO <sub>2</sub>	0.60	559.44	0.168	1,800	0.60	120	211.76	0.064	0.064
CO	84.00	559.44	23.496	1,800	84.00	120	211.76	8.894	8.894
Particulates	7.60	559.44	2.126	1,800	7.60	120	211.76	0.805	0.805
PM <sub>10</sub>	3.06	559.44	0.856	1,800	3.06	120	211.76	0.324	0.324

Emission factors from AP-42, Feb. 1998, Tables 1.4-1 through 1.4-4.

PM10 emission factor based on 0.003 lb/MMBtu permit limit. Assume all PM is PM10.

Manufacturer's (Coen) guaranteed NOx emission factor, 0.275 lb/MMBtu =====> 280.5 lbs/MMcf