



State of Utah

GARY R. HERBERT  
*Governor*

GREG BELL  
*Lieutenant Governor*

Department of  
Environmental Quality

Amanda Smith  
*Executive Director*

DIVISION OF AIR QUALITY  
Cheryl Heying  
*Director*

10238

## Title V Operating Permit

**PERMIT NUMBER:** 1501001003  
**DATE OF PERMIT:** August 19, 2010  
Date of Last Revision: August 19, 2010

This Operating Permit is issued to, and applies to the following:

**Name of Permittee:**

PacifiCorp Energy  
1407 W. North Temple  
Suite 330  
Salt Lake City UT 84116

**Permitted Location:**

PacifiCorp: Huntington Power Plant  
P. O. Box 680  
Huntington UT 84528

UTM coordinates: 493,130 m Easting, 4,358,840 m Northing  
SIC code: 4911 (Electric Services)

### UTAH AIR QUALITY BOARD

By:

Prepared By:

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M. Cheryl Heying, Executive Secretary

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Jennifer He

## **ENFORCEABLE DATES AND TIMELINES**

The following dates or timeframes are referenced in  
Section I: General Provisions of this permit.

Annual Certification Due: April 1 of every calendar year that this permit is in force.

Renewal application due: February 19, 2015

Permit expiration date: August 19, 2015

Definition of “prompt”: written notification within 14 days.

### **ABSTRACT**

The PacifiCorp Huntington Power Plant is a coal-fired steam electric generating facility consisting of two boilers. Unit #1 is a 480 MW unit constructed in October 1973; Unit #2 is a 480 MW unit that commenced construction in April 1970. Bituminous and sub-bituminous coal is the primary fuel source for the dry bottom, tangentially-fired boilers. Fuel oil is used to start up the boilers from a cold start and for boiler flame stabilization. The Huntington Power Plant uses low- NO<sub>x</sub> burners, separated overfire air system, SO<sub>2</sub> FGD scrubber system, and pulse jet fabric filters for both units. The plant is a Phase II Acid Rain source and is a major source of SO<sub>2</sub>, NO<sub>x</sub>, PM<sub>10</sub>, CO, HAP, and HCl emissions. The plant is subject to 40 CFR 60 Subparts D and Y, 40 CFR 64, and 40 CFR 63 Subpart ZZZZ.

## OPERATING PERMIT HISTORY

Permit/Activity	Date Issued	Recorded Changes
Title V renewal application (Project #OPP0102380012)	8/19/2010	Additions: the renewal permit includes new CAM plan for Unit#2, all changes for Unit#1 and PAL approved under the current effective AO issued in 2010, and 40 CFR 63 Subpart ZZZZ requirements.
Title V significant modification (Project #OPP0102380011)	5/9/2008	Changes: to include new NO <sub>x</sub> compliance plan required under Acid Rain Program
Title V administrative amendment by DAQ (Project #OPP0102380008)	10/12/2006	Changes: due to issuance of AO DAQE-AN0238014-06, dated August 14, 2006, for installation of five new lime silos and six fabric filters. In addition, new pollution control equipment on Unit#2 (low-NO <sub>x</sub> burners, a wet lime flue gas desulfurization system, and a pulse jet fabric filter baghouse) approved under AO DAQE-AO0238012-05 is also included in this administration.
Title V administrative amendment by DAQ (Project #OPP0102380007)	8/13/2004	Changes: to correct typographical errors in the permit dated May 19, 2005, in which Provisions I.I.E.4 (Maintenance Outage) and I.I.E.5 (Planned Outage) were reversed.
Title V renewal application (Project #OPP0102380005)	5/19/2004	Changes: The CAM for PM emission for Boiler Unit 1 is included in the permit. RMP is not required and removed from the permit. Both auxiliary steam boilers are not in operation and removed from the permit. Two existing emission units (#42 & #43) for coal processing are added into the permit.
Title V administrative amendment by DAQ (Project #OPP0102380006)	11/6/2003	Changes: due to issuance of AO DAQE-AN0238008A-03, for equipment changes at the blending coal pile operation
Title V administrative amendment by DAQ (Project #OPP0102380004)	3/6/2002	Changes: due to issuance of DAQE-119-02 for adding coal blending equipments. Title V permit renewal date has been changed to 6 months prior to the permit expiration date, making it consistent with most of the sources in Utah.
Title V reopening for cause by DAQ (Project #OPP0102380003)	2/14/2000	Changes: to incorporate compliance plan language from 40 CFR 76.11 in response to EPA guidance and to make minor corrections to the emission unit list and two reporting conditions. There is no change in emissions as a result of these actions.
Title V reopening for cause by DAQ (Project #OPP0102380002)	6/29/1999	Changes: to correct language in provision I.U.1 regarding inventory submittal; to incorporate a NO <sub>x</sub> averaging plan under 40 CFR Part 76; and to correct minor administrative errors in permit.

Title V initial application (Project #OPP0102380001)	1/7/1998	

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**Issued under authority of Utah Code Ann. Section 19-2-104 and 19-2-109.1, and in accordance with Utah Administrative Code R307-415 Operating Permit Requirements.**

All definitions, terms and abbreviations used in this permit conform to those used in Utah Administrative Code R307-101 and R307-415 (Rules), and 40 Code of Federal Regulations (CFR), except as otherwise defined in this permit. Unless noted otherwise, references cited in the permit conditions refer to the Rules.

Where a permit condition in Section I, General Provisions, partially recites or summarizes an applicable rule, the full text of the applicable portion of the rule shall govern interpretations of the requirements of the rule. In the case of a conflict between the Rules and the permit terms and conditions of Section II, Special Provisions, the permit terms and conditions of Section II shall govern except as noted in Provision I.M, Permit Shield.

## **SECTION I: GENERAL PROVISIONS**

**I.A Federal Enforcement.**

All terms and conditions in this permit, including those provisions designed to limit the potential to emit, are enforceable by the EPA and citizens under the Clean Air Act of 1990 (CAA) except those terms and conditions that are specifically designated as "State Requirements". (R307-415-6b)

**I.B Permitted Activity(ies).**

Except as provided in R307-415-7b(1), the permittee may not operate except in compliance with this permit. (See also Provision I.E, Application Shield)

**I.C Duty to Comply.**

I.C.1 The permittee must comply with all conditions of the operating permit. Any permit noncompliance constitutes a violation of the Air Conservation Act and is grounds for any of the following: enforcement action; permit termination; revocation and reissuance; modification; or denial of a permit renewal application. (R307-415-6a(6)(a))

I.C.2 It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (R307-415-6a(6)(b))

I.C.3 The permittee shall furnish to the Executive Secretary, within a reasonable time, any information that the Executive Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Executive Secretary copies of records required to be kept by this permit or, for information claimed to be confidential, the permittee may furnish such records directly to the EPA along with a claim of confidentiality. (R307-415-6a(6)(e))

I.C.4 This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance shall not stay any permit condition, except as provided under R307-415-7f(1) for minor permit modifications. (R307-415-6a(6)(c))

**I.D Permit Expiration and Renewal.**

I.D.1 This permit is issued for a fixed term of five years and expires on the date shown under "Enforceable Dates and Timelines" at the front of this permit. (R307-415-6a(2))

I.D.2 Application for renewal of this permit is due on or before the date shown under "Enforceable Dates and Timelines" at the front of this permit. An application may be submitted early for any reason. (R307-415-5a(1)(c))

I.D.3 An application for renewal submitted after the due date listed in I.D.2 above shall be accepted for processing, but shall not be considered a timely application and shall not relieve the permittee of any enforcement actions resulting from submitting a late application. (R307-415-5a(5))

I.D.4 Permit expiration terminates the permittee's right to operate unless a timely and complete renewal application is submitted consistent with R307-415-7b (see also Provision I.E, Application Shield) and R307-415-5a(1)(c) (see also Provision I.D.2). (R307-415-7c(2))

**I.E Application Shield.**

If the permittee submits a timely and complete application for renewal, the permittee's failure to have an operating permit will not be a violation of R307-415, until the Executive Secretary takes final action on the permit renewal application. In such case, the terms and conditions of this permit shall remain in force until permit renewal or denial. This protection shall cease to apply if, subsequent to the completeness determination required pursuant to R307-415-7a(3), and as required by R307-415-5a(2), the applicant fails to submit by the deadline specified in writing by the Executive Secretary any additional information identified as being needed to process the application. (R307-415-7b(2))

**I.F Severability.**

In the event of a challenge to any portion of this permit, or if any portion of this permit is held invalid, the remaining permit conditions remain valid and in force. (R307-415-6a(5))

**I.G Permit Fee.**

I.G.1 The permittee shall pay an annual emission fee to the Executive Secretary consistent with R307-415-9. (R307-415-6a(7))

I.G.2 The emission fee shall be due on October 1 of each calendar year or 45 days after the source receives notice of the amount of the fee, whichever is later. (R307-415-9(4)(a))

**I.H No Property Rights.**

This permit does not convey any property rights of any sort, or any exclusive privilege. (R307-415-6a(6)(d))

**I.I Revision Exception.**

No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit. (R307-415-6a(8))

**I.J Inspection and Entry.**

I.J.1 Upon presentation of credentials and other documents as may be required by law, the

permittee shall allow the Executive Secretary or an authorized representative to perform any of the following:

- I.J.1.a Enter upon the permittee's premises where the source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit. (R307-415-6c(2)(a))
- I.J.1.b Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit. (R307-415-6c(2)(b))
- I.J.1.c Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practice, or operation regulated or required under this permit. (R307-415-6c(2)(c))
- I.J.1.d Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with this permit or applicable requirements. (R307-415-6c(2)(d))
- I.J.2 Any claims of confidentiality made on the information obtained during an inspection shall be made pursuant to Utah Code Ann. Section 19-1-306. (R307-415-6c(2)(e))

**I.K Certification.**

Any application form, report, or compliance certification submitted pursuant to this permit shall contain certification as to its truth, accuracy, and completeness, by a responsible official as defined in R307-415-3. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. (R307-415-5d)

**I.L Compliance Certification.**

- I.L.1 Permittee shall submit to the Executive Secretary an annual compliance certification, certifying compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. This certification shall be submitted no later than the date shown under "Enforceable Dates and Timelines" at the front of this permit, and that date each year following until this permit expires. The certification shall include all the following (permittee may cross-reference this permit or previous reports): (R307-415-6c(5))
  - I.L.1.a The identification of each term or condition of this permit that is the basis of the certification;
  - I.L.1.b The identification of the methods or other means used by the permittee for determining the compliance status with each term and condition during the certification period. Such methods and other means shall include, at a minimum, the monitoring and related recordkeeping and reporting requirements in this permit. If necessary, the permittee also shall identify any other material information that must be included in the certification to comply with section 113(c)(2) of the Act, which prohibits knowingly making a false certification or omitting material information;
  - I.L.1.c The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the method or means designated in Provision I.L.1.b. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to

compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 occurred; and

I.L.1.d Such other facts as the Executive Secretary may require to determine the compliance status.

I.L.2 The permittee shall also submit all compliance certifications to the EPA, Region VIII, at the following address or to such other address as may be required by the Executive Secretary: (R307-415-6c(5)(d))

Environmental Protection Agency, Region VIII  
Office of Enforcement, Compliance and Environmental Justice  
(mail code 8ENF)  
1595 Wynkoop Street  
Denver, CO 80202-1129

**I.M Permit Shield.**

I.M.1 Compliance with the provisions of this permit shall be deemed compliance with any applicable requirements as of the date of this permit, provided that:

I.M.1.a Such applicable requirements are included and are specifically identified in this permit, or (R307-415-6f(1)(a))

I.M.1.b Those requirements not applicable to the source are specifically identified and listed in this permit. (R307-415-6f(1)(b))

I.M.2 Nothing in this permit shall alter or affect any of the following:

I.M.2.a The emergency provisions of Utah Code Ann. Section 19-1-202 and Section 19-2-112, and the provisions of the CAA Section 303. (R307-415-6f(3)(a))

I.M.2.b The liability of the owner or operator of the source for any violation of applicable requirements under Utah Code Ann. Section 19-2-107(2)(g) and Section 19-2-110 prior to or at the time of issuance of this permit. (R307-415-6f(3)(b))

I.M.2.c The applicable requirements of the Acid Rain Program, consistent with the CAA Section 408(a). (R307-415-6f(3)(c))

I.M.2.d The ability of the Executive Secretary to obtain information from the source under Utah Code Ann. Section 19-2-120, and the ability of the EPA to obtain information from the source under the CAA Section 114. (R307-415-6f(3)(d))

**I.N Emergency Provision.**

I.N.1 An "emergency" is any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error. (R307-415-6g(1))

I.N.2 An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the affirmative defense is demonstrated

through properly signed, contemporaneous operating logs, or other relevant evidence that:

- I.N.2.a An emergency occurred and the permittee can identify the causes of the emergency. (R307-415-6g(3)(a))
- I.N.2.b The permitted facility was at the time being properly operated. (R307-415-6g(3)(b))
- I.N.2.c During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in this permit. (R307-415-6g(3)(c))
- I.N.2.d The permittee submitted notice of the emergency to the Executive Secretary within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. This notice fulfills the requirement of Provision I.S.2.c below. (R307-415-6g(3)(d))
- I.N.3 In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof. (R307-415-6g(4))
- I.N.4 This emergency provision is in addition to any emergency or upset provision contained in any other section of this permit. (R307-415-6g(5))

**I.O Operational Flexibility.**

Operational flexibility is governed by R307-415-7d(1).

**I.P Off-permit Changes.**

Off-permit changes are governed by R307-415-7d(2).

**I.Q Administrative Permit Amendments.**

Administrative permit amendments are governed by R307-415-7e.

**I.R Permit Modifications.**

Permit modifications are governed by R307-415-7f.

**I.S Records and Reporting.**

**I.S.1 Records.**

I.S.1.a The records of all required monitoring data and support information shall be retained by the permittee for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, all original strip-charts or appropriate recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. (R307-415-6a(3)(b)(ii))

I.S.1.b For all monitoring requirements described in Section II, Special Provisions, the source shall record the following information, where applicable: (R307-415-6a(3)(b)(i))

I.S.1.b.1 The date, place as defined in this permit, and time of sampling or measurement.

- I.S.1.b.2            The date analyses were performed.
- I.S.1.b.3            The company or entity that performed the analyses.
- I.S.1.b.4            The analytical techniques or methods used.
- I.S.1.b.5            The results of such analyses.
- I.S.1.b.6            The operating conditions as existing at the time of sampling or measurement.
- I.S.1.c              Additional record keeping requirements, if any, are described in Section II, Special Provisions.
- I.S.2                Reports.
- I.S.2.a              Monitoring reports shall be submitted to the Executive Secretary every six months, or more frequently if specified in Section II. All instances of deviation from permit requirements shall be clearly identified in the reports. (R307-415-6a(3)(c)(i))
- I.S.2.b              All reports submitted pursuant to Provision I.S.2.a shall be certified by a responsible official in accordance with Provision I.K of this permit. (R307-415-6a(3)(c)(i))
- I.S.2.c              The Executive Secretary shall be notified promptly of any deviations from permit requirements including those attributable to upset conditions as defined in this permit, the probable cause of such deviations, and any corrective actions or preventative measures taken. Prompt, as used in this condition, shall be defined as written notification within the number of days shown under "Enforceable Dates and Timelines" at the front of this permit. Deviations from permit requirements due to unavoidable breakdowns shall be reported in accordance with the provisions of R307-107. (R307-415-6a(3)(c)(ii))
- I.S.3                Notification Addresses.
- I.S.3.a              All reports, notifications, or other submissions required by this permit to be submitted to the Executive Secretary are to be sent to the following address or to such other address as may be required by the Executive Secretary:  
  
Utah Division of Air Quality  
P.O. Box 144820  
Salt Lake City, UT 84114-4820  
Phone: 801-536-4000
- I.S.3.b              All reports, notifications or other submissions required by this permit to be submitted to the EPA should be sent to one of the following addresses or to such other address as may be required by the Executive Secretary:  
  
For annual compliance certifications:  
  
Environmental Protection Agency, Region VIII  
Office of Enforcement, Compliance and Environmental Justice  
(mail code 8ENF)  
1595 Wynkoop Street  
Denver, CO 80202-1129

For reports, notifications, or other correspondence related to permit modifications, applications, etc.:

Environmental Protection Agency, Region VIII  
Office of Partnerships & Regulatory Assistance Air & Radiation Program (mail code 8P-AR)  
1595 Wynkoop Street  
Denver, CO 80202-1129  
Phone: 303-312-6440

**I.T Reopening for Cause.**

I.T.1 A permit shall be reopened and revised under any of the following circumstances:

I.T.1.a New applicable requirements become applicable to the permittee and there is a remaining permit term of three or more years. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the terms and conditions of this permit have been extended pursuant to R307-415-7c(3), application shield. (R307-415-7g(1)(a))

I.T.1.b The Executive Secretary or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit. (R307-415-7g(1)(c))

I.T.1.c EPA or the Executive Secretary determines that this permit must be revised or revoked to assure compliance with applicable requirements. (R307-415-7g(1)(d))

I.T.1.d Additional applicable requirements are to become effective before the renewal date of this permit and are in conflict with existing permit conditions. (R307-415-7g(1)(e))

I.T.2 Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the Acid Rain Program. Upon approval by EPA, excess emissions offset plans shall be deemed to be incorporated into this permit. (R307-415-7g(1)(b))

I.T.3 Proceedings to reopen and issue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. (R307-415-7g(2))

**I.U Inventory Requirements.**

An emission inventory shall be submitted in accordance with the procedures of R307-150, Emission Inventories. (R307-150)

**I.V Title IV and Other, More Stringent Requirements**

Where an applicable requirement is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, Acid Deposition Control, both provisions shall be incorporated into this permit. (R307-415-6a(1)(b))

## **SECTION II: SPECIAL PROVISIONS**

- II.A **Emission Unit(s) Permitted to Discharge Air Contaminants.**  
(R307-415-4(3)(a) and R307-415-4(4))
- II.A.1 **Permitted Source**  
Source-wide
- II.A.2 **Boiler Unit #1 (EU #1)**  
Nominal 480 MW gross capacity dry bottom tangentially-fired utility boiler fired on subbituminous and bituminous coal using fuel oil during startup & flame stabilization. Equipped with low-NO<sub>x</sub> burners, overfire air system, SO<sub>2</sub> FGD scrubber and baghouse. NSPS Subpart D
- II.A.3 **Boiler Unit #2 (EU #2)**  
Nominal 480 MW gross capacity dry bottom tangentially-fired utility boiler fired on subbituminous and bituminous coal using fuel oil during startup & flame stabilization. Equipped with low-NO<sub>x</sub> burners, overfire air system, SO<sub>2</sub> FGD scrubber and baghouse.
- II.A.4 **Coal Storage (EU #4)**  
Existing covered coal storage facility and open coal pile. No unit-specific applicable requirements.
- II.A.5 **Ash Landfill (EU #3)**  
Ash and sludge disposal. No unit-specific applicable requirements.
- II.A.6 **Unit #1 Cooling Towers (EU #5)**  
Unit #1 cooling towers for the circulating water system. No unit-specific applicable requirements.
- II.A.7 **Unit #2 Cooling Towers (EU #6)**  
Unit #2 cooling towers for the circulating water system. No unit-specific applicable requirements.
- II.A.8 **Coal Conveyors (EU #8)**  
Coal transfer on plant site.
- II.A.9 **Ash Haul Road (dirt) (EU #10a)**  
Unpaved ash haul road. No unit-specific applicable requirements.
- II.A.10 **Ash Haul Road (paved) (EU #10b)**  
Paved ash haul road. No unit-specific applicable requirements.
- II.A.11 **Unit #1 Emergency Generator(diesel engine)(EU #12)**  
Emergency generator (diesel engine) for Unit #1 rated at 1,155 hp and manufactured in 1975. No unit-specific applicable requirements.
- II.A.12 **Unit #2 Emergency Generator(diesel engine)(EU #13)**  
Emergency generator (diesel engine) for Unit #2 rated at 1,155 hp and manufactured in 1972. No unit-specific applicable requirements.
- II.A.13 **Emergency Fire Pump (diesel engine) (EU #14)**  
Emergency fire pump (diesel engine) rated at 250 hp. Subject to 40 CFR 63 Subpart ZZZZ.
- II.A.14 **Coal Silo System Exhauster for Unit #1 (EU #17)**  
Coal silos for Unit #1 equipped with exhausters and dust collectors. No unit-specific applicable

requirements.

- II.A.15      **Coal Silo System Exhauster for Unit #2 (EU #18)**  
Coal silos for Unit #2 equipped with exhausters and dust collectors. No unit-specific applicable requirements.
- II.A.16      **Distillate Fuel Oil Tanks (EU #20)**  
Three 70,000 gallon tanks (1973) and day tanks for the emergency diesel generators and fire pumps. No unit-specific applicable requirements.
- II.A.17      **Lube Oil Storage Tanks (EU #21)**  
Two 10,000 gallon tanks constructed prior to 1976 that store lubricating oil including vents and associated equipment. No unit-specific applicable requirements.
- II.A.18      **Oil Storage Area (EU #22)**  
Storage area for oil contained in closed 55 gallon drums. No unit-specific applicable requirements.
- II.A.19      **Paved Access Road and Parking Area (EU #23)**  
Paved access road from the plant entrance to the administration building and parking area. No unit-specific applicable requirements.
- II.A.20      **Cold Solvent Degreasing Operations (EU #24)**  
Bench-top cold degreasing units using Safety-Kleen, Simple Green, or other comparable degreasing agents. No unit-specific applicable requirements.
- II.A.21      **Miscellaneous Electrical Equipment (EU #25)**  
Fugitive emission units including transformer insulating oil. No unit-specific applicable requirements.
- II.A.22      **Diesel Refueling Stations and Storage Tanks (EU #26)**  
Miscellaneous fuel storage tanks and associated dispensing equipment to refuel fleet vehicles and mobile equipment. No unit-specific applicable requirements.
- II.A.23      **Gasoline Vehicle Refueling Station and Tanks (EU #27)**  
Miscellaneous gasoline storage tanks and associated dispensing equipment to refuel fleet vehicles and mobile equipment. No unit-specific applicable requirements.
- II.A.24      **Unit #1 Generator Seal Oil Air Detraining Tanks (EU #29-1)**  
Atmospheric vents from the seal oil air detraining tanks for Boiler Unit #1. No unit-specific applicable requirements.
- II.A.25      **Unit #2 Generator Seal Oil Air Detraining Tanks (EU #29-2)**  
Atmospheric vents from the seal oil air detraining tanks for Boiler Unit #2. No unit-specific applicable requirements.
- II.A.26      **Unit #1 Lube Oil Reservoirs (EU #30-1)**  
Lube oil reservoirs with vapor extractors for Boiler Unit #1. No unit-specific applicable requirements.
- II.A.27      **Unit #2 Lube Oil Reservoirs (EU #30-2)**  
Lube oil reservoirs with vapor extractors for Boiler Unit #2. No unit-specific applicable requirements.

- II.A.28      **Truck Mounted Vacuum System (EU #31)**  
Mobile truck mounted vacuum to clean up spilled material such as ash. No unit-specific applicable requirements.
- II.A.29      **Ash Unloader for Unit #1 (EU #32)**  
Equipment for unloading ash from silos and into trucks for transport to the ash landfill. No unit-specific applicable requirements
- II.A.30      **Ash Unloader for Unit #1 (EU #33)**  
Equipment for unloading ash from silos and into trucks for transport to the ash landfill. No unit-specific applicable requirements
- II.A.31      **Emission Units Subject to 40% Opacity Limit (EU #34)**  
Units constructed prior to April 25, 1971 consisting of Boiler Unit #2 coal silo system exhausters, Unit #2 ash unloader, Unit #2 Generator Seal Oil Air Detraining Tanks, Unit #2 Lube Oil Reservoir, and the coal reject handling system (EU #35).
- II.A.32      **Coal Reject Handling System (EU #35)**  
Material handling system that separates reject materials from the coal prior to pulverizing. No unit-specific applicable requirements.
- II.A.33      **Hazardous Waste Storage Area (EU #36)**  
Area where hazardous waste is stored temporarily awaiting disposal. No unit-specific applicable requirements.
- II.A.34      **Electro-hydraulic Control Reservoirs (EU #37)**  
Three 400 gallon tanks that store lubricating oil. No unit-specific applicable requirements.
- II.A.35      **Water Treatment Chemical Tanks (EU #38)**  
Tank storage including sulfuric acid, hydrochloric acid, lime, soda ash, sodium hydroxide, anti-scale, and other miscellaneous water treatment chemicals. No unit-specific applicable requirements.
- II.A.36      **Paint Storage Areas (EU #40)**  
Various storage areas for sealed paint containers. No unit-specific applicable requirements.
- II.A.37      **Coal handling and Blending Equipments (EU #41)**  
Includes truck unloading hopper enclosed on the sides with water sprays, covered conveyor belts with enclosed transfer stations, radial stacker, Stamler feeder with water sprays, and screens. NPSP Subpart Y.
- II.A.38      **Unit #1 Coal Mill Reject Material Drops (EU #42)**  
Conveyor belt used to remove pyrites, tramp iron, and other reject materials from the Unit 1 coal mills. NSPS Subpart Y.
- II.A.39      **Unit #2 Coal Mill Reject Material Drops (EU #43)**  
Conveyor belt used to remove pyrites, tramp iron, and other reject materials from the Unit 2 coal mills. NSPS Subpart Y.
- II.A.40      **Real Time Coal Analyzer (EU #44)**  
Thermo Electron CQM coal analyzer with hopper and associated covered conveyor belts with enclosed transfer stations equipped with dust closure seals and curtains at all loading points.
- II.A.41      **Unit #2 Fabric filter Group (EU #45)**

One fabric filter for fly ash silo bin vent.

II.A.42 **Unit #2 Fabric filters Group (EU #46)**

Includes a total of five fabric filters, one fabric filters for each of the two waste lime day bin vents, one fabric filters for each of the two lime silo day bin vents, and one fabric filter for lime silo vent.

II.B.1 **Conditions on permitted source (Source-wide).**

II.B.1.a **Condition:**

Emissions from sources of fugitive dust shall be minimized. [Origin: DAQE-AN0102380021-10]. [R307-205-5]

II.B.1.a.1 **Monitoring:**

Adherence to the most recently approved fugitive dust control plan shall be monitored to demonstrate that appropriate measures are being implemented to control fugitive dust.

II.B.1.a.2 **Recordkeeping:**

Records of measures taken to minimize fugitive dust shall be maintained as described in Provision I.S.1 of this permit.

II.B.1.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.1.b **Condition:**

The permittee shall comply with the applicable requirements for recycling and emission reduction for class I and class II refrigerants pursuant to 40 CFR 82, Subpart F - Recycling and Emissions Reduction. [Origin: 40 CFR 82.150(b)]. [40 CFR 82 Subpart F]

II.B.1.b.1 **Monitoring:**

The permittee shall certify, in the annual compliance statement required in Section I of this permit, its compliance status with the requirements of 40 CFR 82, Subpart F.

II.B.1.b.2 **Recordkeeping:**

All records required in 40 CFR 82, Subpart F shall be maintained consistent with the requirements of Provision S.1 in Section I of this permit.

II.B.1.b.3 **Reporting:**

All reports required in 40 CFR 82, Subpart F shall be submitted as required. There are no additional reporting requirements except as outlined in Section I of this permit.

**II.B.1.c Condition:**

Sulfur content of fuel oil shall be no greater than 0.85 lbs/MMBtu heat input. [Origin: DAQE-AN0102380021-10]. [R307-203-1(1)]

**II.B.1.c.1 Monitoring:**

The following specifications shall be recorded for each purchase of fuel: weight percent sulfur, gross heating value (Btu per unit volume), and density. All specifications shall be ascertained in accordance with methods of American Society for Testing and Materials.

Sulfur content in lbs/MMBtu shall be determined by the following equation:

$$S \text{ lbs/MMBtu} = [(\text{Weight percent sulfur}/100) \times \text{Density (lb/gal)}] / [(\text{gross heating value (Btu/gal)}) \times (1 \text{ MMBtu}/1,000,000 \text{ Btu})]$$

The permittee may obtain the above specifications by testing each purchase of fuel in accordance with the required methods; by inspection of the specifications provided by the vendor for each purchase of fuel; or by inspection of summary documentation of the fuel sulfur content from the vendor, provided that the above specifications are available from the vendor for each purchase if requested.

**II.B.1.c.2 Recordkeeping:**

The records required for monitoring shall be maintained as described by Provision S.1 in Section I of this permit.

**II.B.1.c.3 Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

**II.B.1.d Condition:**

The permittee shall not discharge into the atmosphere from any abrasive blasting any air contaminant for a period or periods aggregating more than three minutes in any one hour which is a shade or density darker than 40% opacity. [Origin: DAQE-AN0102380021-10]. [R307-206]

**II.B.1.d.1 Monitoring:**

(a) Visible emissions shall be measured at least semi-annually using EPA Method 9. Visible emissions from intermittent sources shall use procedures similar to Method 9, but the requirement for observations to be made at 15 second intervals over a six-minute period shall not apply.

(b) Visible emissions from unconfined blasting shall be measured at the densest point of the emission after a major portion of the spent abrasive has fallen out, at a point not less than five feet nor more than twenty-five feet from the impact surface from any single abrasive blasting nozzle.

(c) An unconfined blasting operation that uses multiple nozzles shall be considered a single source unless it can be demonstrated by the permittee that each nozzle, measured separately, meets the emission and performance standards provided in R307-206-2 through 4.

(d) Visible emissions from confined blasting shall be measured at the densest point after the air contaminant leaves the enclosure.

II.B.1.d.2

**Recordkeeping:**

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.1.d.3

**Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.1.e

**Condition:**

Visible emissions shall be no greater than 20 percent opacity unless otherwise specified in this permit. [Origin: DAQE-AN0102380021-10]. [R307-201-3]

II.B.1.e.1

**Monitoring:**

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than steam are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9. If opacity exceeds the limit, maintenance shall be performed on the affected unit to correct the problem.

II.B.1.e.2

**Recordkeeping:**

A log of the visual opacity survey(s) shall be maintained in accordance with Provision I.S.1 of this permit. If an opacity determination is indicated, a notation of the determination shall be made in the log. All data required by 40 CFR 60, Appendix A, Method 9 shall also be maintained in accordance with Provision I.S.1 of this permit. If excess visible emission is indicated, a notation of the resulting maintenance activity shall also be made in the log, and shall include the date of the maintenance request, the date the maintenance was performed, the type of maintenance performed, and the name of the person responsible for the maintenance.

II.B.1.e.3

**Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.1.f

**Condition:**

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any permitted plant equipment, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Origin: DAQE-AN0102380021-10]. [R307-401-8(2), 40 CFR 60 Subpart A]

II.B.1.f.1

**Monitoring:**

Records required for this permit condition will serve as monitoring.

II.B.1.f.2

**Recordkeeping:**

Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.1.f.3

**Reporting:**

In addition to the reports required in Section I of this permit, the following reports shall be submitted:

- (a) An annual projection of planned outages for steam boilers and associated pollution control equipment shall be submitted to the Executive Secretary not later than January 30 for each calendar year.
- (b) Changes to the schedule of planned outages shall be reported to the Executive Secretary within 96 hours after the start of the outage.
- (c) Maintenance outages shall be reported promptly or according to other applicable reporting criteria in Provision I.S.

II.B.1.g

**Condition:**

The plant-wide applicability limitation (PAL) of SO<sub>2</sub> emission shall be no greater than 5,260 tons per year and the PAL of NO<sub>x</sub> emission shall be no greater than 11,396 tons per year, based on 12-month rolling total, beginning in the month following the installation of the Unit 1 FGD upgrades, for the entire Huntington Plant from all point sources and fugitive emission. The PAL limits shall be effective for ten years from August 6, 2009. If the permittee applies for PAL renewal, the permittee shall submit application in accordance with 40 CFR Subpart 52.21(aa)(10) before the end of the PAL effective date. The PAL shall remain effective until a revised approval order is issued. Once the PAL expires, the permittee shall be subject to the requirements of 40 CFR Subpart 52.21(aa)(9). [Origin: AO DAQE-AN0102380021-10]. [R307-401-8(1)(a)(BACT), R307-405-21]

II.B.1.g.1

**Monitoring:**

SO<sub>2</sub> and NO<sub>x</sub> emissions shall be monitored in accordance with 40 CFR part 52.21(aa)(12), Monitoring Requirements for PALs and as minimum it shall be calculated by summing up emissions as follows:

(a) For Units #1 and #2 main boiler stacks, the permittee's reporting to EPA's Acid Rain Emissions data base for NO<sub>x</sub> and SO<sub>2</sub> in pounds per hour obtained from the boilers' CEM data shall be used to calculate NO<sub>x</sub> and SO<sub>2</sub> emission rates. All reported NO<sub>x</sub> and SO<sub>2</sub> emissions, including emissions associated with startups, shutdowns, and malfunctions, in pounds per hour, shall be summed to get monthly total emissions.

(b) For emergency diesel-fired generators, emissions shall be calculated by multiplying the SO<sub>2</sub> and NO<sub>x</sub> emission factors from the latest edition of EPA's emission factors compilation AP-42 and hours of operation. Records documenting generator usage shall be kept in a log, that shall include the date the generator is used and the duration in hours of generator usage. The permittee may rely upon hour meters to determine monthly diesel engine operational run times from which to calculate monthly mass emissions.

(c) For emergency diesel-fired fire pumps, emissions shall be calculated by multiplying the SO<sub>2</sub> and NO<sub>x</sub> emission factor from the latest edition of EPA's emission factors compilation AP-42 and hours of operation. Records documenting generator usage shall be kept in a log, that shall include date the pump is used and the duration in hours of pump usage. The permittee may rely upon hour meters to determine monthly diesel engine operational run times from which to calculate monthly mass emissions.

(d) The permittee shall calculate new 12-month NO<sub>x</sub> and SO<sub>2</sub> emissions by the twentieth day of each month using data from the previous 12 months. Records of emissions shall be kept for all periods when the plant is in operation. [R307-405-21]

II.B.1.g.2

**Recordkeeping:**

The results of monitoring shall be kept in accordance with Provision I.S.1 of this permit. In addition, permittee shall comply with 40 CFR Subpart 52.21(aa)(13), Recordkeeping Requirements for PALs. [R307-405-21]

II.B.1.g.3

**Reporting:**

In addition to the reporting requirement described in Provision I.S.2 of this permit, the permittee shall comply with 40 CFR Subpart 52.21(aa)(14), Reporting and notification requirements for PALs. [R307-405-21]

II.B.2

**Conditions on Boiler Unit #1 (EU #1).**

II.B.2.a

**Condition:**

Prior to completing the scrubber upgrade, emissions of SO<sub>2</sub> shall be no greater than 20 percent of the potential combustion concentration based on the average inlet and average outlet SO<sub>2</sub> emissions determined as the arithmetic average of all hourly emission rates for the 30 successive boiler operating days. This permit condition and associated monitoring, recordkeeping and reporting requirements shall cease following completion of the Unit 1 scrubber upgrade project.[Origin: DAQE-AN0102380021-10]. [R307-401-8(1)(a)(BACT)]

II.B.2.a.1

**Monitoring:**

(a) The permittee shall install, calibrate, maintain, and operate a continuous monitoring system, and record the output of the system, for measuring sulfur dioxide emissions. The permittee shall determine compliance with the SO<sub>2</sub> reduction limit by periodic monitoring using procedures in 40 CFR Part 60.46a, Compliance provision (subparagraph (c), (d), (e), (g) and (h)), 60.47a, Emission monitoring (subparagraph (b), (d), (e), (f), (g), (h), (i) and (j)), and 60.48a, Compliance determination procedures and methods (subparagraph (c)).

(b) Each continuous emissions monitoring system shall meet the following requirements:

40 CFR Part 75, Appendix A, Specification and Test Procedures

1. Installation and Measurement Location
2. Equipment Specifications (except the requirement for a low range in 2.1.1.2)
3. Performance Specifications
4. Data Acquisition and Handling Systems
5. Calibration Gas

(c) The quality assurance requirements of R307-170, Continuous Emission Monitoring Systems Program, may be used to fulfill the 40 CFR 60.13(d)(1) continuous emission monitor data quality assurance requirements.

(d) An "as-fired" fuel testing program (upstream of coal pulverizers) meeting the requirements of Method 19 (40 CFR Part 60 Appendix A) may be used as an alternative method to determine potential sulfur dioxide emissions in place of a continuous sulfur dioxide emission monitor at the inlet to the sulfur dioxide control device. The permittee shall prepare a quality assurance (QA) plan for the coal sampling equipment, coal custody procedures, and laboratory analysis. Method 19 and ASTM QA procedures may be used as part of the plan.

II.B.2.a.2

**Recordkeeping:**

(a) The permittee shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by applicable portions of 40 CFR Part 60, Subparts A and D recorded in a permanent form suitable for inspection.

(b) The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the unit; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

(c) The permittee shall maintain records demonstrating adherence to the fuel testing program QA plan if fuel testing is performed.

II.B.2.a.3

**Reporting:**

- (a) The permittee shall report 30-day periods during which the SO<sub>2</sub> reduction requirement was not met in the next NSPS excess emission report.
- (b) The permittee shall submit notifications and reports to the Executive Secretary as required by R307-170, Continuous Emission Monitoring Systems Program.
- (c) There are no additional reporting requirements for this provision except those specified in Section I of this permit.
- (d) The reports required in paragraphs a and b above are considered prompt notification of permit deviations required in provision I.S.2.c of this permit if all information required by provision I.S.2.c is included in the report.

II.B.2.b

**Condition:**

Prior to completion of the scrubber upgrade installation, emissions of SO<sub>2</sub> shall be no greater than 1.2 lb/MMBtu heat input for any 3-hour period as determined by the arithmetic average of three contiguous one-hour periods except during periods of startup, shutdown, maintenance/planned outage, or malfunction.

Following completion of the scrubber upgrade installation, emissions of SO<sub>2</sub> shall be no greater than 0.12 lb/MMBtu heat input (595 lb/hr) on 30-day rolling average except during periods of startup, shutdown, maintenance/planned outage, or malfunction. [Origin: DAQE-AN0102380021-10]. [40 CFR 60 Subpart D, R307-401-8(1)(a)(BACT)]

II.B.2.b.1

**Monitoring:**

- (a) The permittee shall install, calibrate, maintain, and operate a continuous monitoring system for measuring sulfur dioxide emissions. The permittee shall determine compliance by periodic monitoring using procedures in 40 CFR Part 60.45, Emission and fuel monitoring (subparagraphs (a), (e), and (f)) and 60.13(e).
- (b) Each continuous emission monitoring system shall meet the following requirements:

40 CFR Part 75, Appendix A, Specification and Test Procedures

- 1. Installation and Measurement Location
- 2. Equipment Specifications (except the requirement for a low range in 2.1.1.2)
- 3. Performance Specifications
- 4. Data Acquisition and Handling Systems
- 5. Calibration Gas

- (c) The quality assurance requirements of R307-170, Continuous Emission Monitoring Systems Program, may be used to fulfill the 40 CFR 60.13(d)(1) continuous emission monitor data quality assurance requirements.

II.B.2.b.2

**Recordkeeping:**

- (a) The permittee shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by applicable portions of 40 CFR Part 60, Subparts A and D recorded

in a permanent form suitable for inspection. (40 CFR 60.7(f))

(b) The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the unit; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative (40 CFR 60.7(b)). (origin: 40 CFR 60.7(b) & (f) and R307-415-6a(3)(B)(ii))

II.B.2.b.3

**Reporting:**

(a) The permittee shall submit excess emission reports required by 40 CFR 60.7(c) and (d) and 40 CFR 60.45(g), Reporting requirements. A data assessment report required by Appendix F, Procedure 1, Section 7 to 40 CFR Part 60, or by 40 CFR 75 Appendix B, shall be submitted with the excess emission report.

(b) The permittee shall submit notifications and reports to the Executive Secretary as required by R307-170, Continuous Emission Monitoring Systems Program.

(c) A copy of all reports required by 40 CFR Part 60 to be submitted to the Executive Secretary (permitting authority) shall also be submitted to USEPA, Region VIII, if requested. (40 CFR 60.4 and 60.7(c))

(d) The reports required in paragraphs a, b, and c above are considered prompt notification of permit deviations required in provision I.S.2.c of this permit if all information required by provision I.S.2.c is included in the report. (origin: 40 CFR 60.4, 60.7(c), and 60.45(g))

II.B.2.c

**Condition:**

Prior to completion of the scrubber upgrade installation, emissions of NO<sub>x</sub> shall be no greater than 0.70 lb/MMBtu heat input for any 3-hour period as determined by the arithmetic average of three contiguous one-hour periods except during periods of startup, shutdown, maintenance/planned outage, or malfunction.

Following installation of the low-NO<sub>x</sub> system, emissions of NO<sub>x</sub> shall be no greater than 0.26 lb/MMBtu heat input (1,290 lb/hr) on 30-day rolling average except during periods of startup, shutdown, maintenance/planned outage, or malfunction. [Origin: DAQE-AN0102380021-10]. [R307-401-8(1)(a)(BACT), 40 CFR 60 Subpart D]

II.B.2.c.1

**Monitoring:**

(a) The permittee shall install, calibrate, maintain, and operate a continuous monitoring system for measuring nitrogen oxides emissions. The permittee shall determine compliance by periodic monitoring using procedures in 40 CFR Part 60.45, Emission and fuel monitoring (subparagraphs (a), (e), and (f)) and 60.13(e).

(b) Each continuous emission monitoring system shall meet the following requirements:

40 CFR Part 75, Appendix A, Specification and Test Procedures

1. Installation and Measurement Location
2. Equipment Specifications (except the requirement for a low range in 2.1.1.2)
3. Performance Specifications
4. Data Acquisition and Handling Systems
5. Calibration Gas

(c) The quality assurance requirements of R307-170, Continuous Emission Monitoring Systems

Program, may be used to fulfill the 40 CFR 60.13(d)(1) continuous emission monitor data quality assurance requirements.

II.B.2.c.2

**Recordkeeping:**

(a) The permittee shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by applicable portions of 40 CFR Part 60, Subparts A and D recorded in a permanent form suitable for inspection. (40 CFR 60.7(f))

(b) The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the unit; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative (40 CFR 60.7(b)). (origin: 40 CFR 60.7(b) & (f) and R307-415-6a(3)(B)(ii))

II.B.2.c.3

**Reporting:**

(a) The permittee shall submit excess emission reports required by 40 CFR 60.7(c) and (d) and 40 CFR 60.45(g), Reporting requirements. A data assessment report required by Appendix F, Procedure 1, Section 7 to 40 CFR Part 60, or by 40 CFR 75 Appendix B, shall be submitted with the excess emission report.

(b) The permittee shall submit notifications and reports to the Executive Secretary as required by R307-170, Continuous Emission Monitoring Systems Program.

(c) A copy of all reports required by 40 CFR Part 60 to be submitted to the Executive Secretary (permitting authority) shall also be submitted to USEPA, Region VIII, if requested. (40 CFR 60.4 and 60.7(c))

(d) The reports required in paragraphs a, b, and c above are considered prompt notification of permit deviations required in provision I.S.2.c of this permit if all information required by provision I.S.2.c is included in the report. (origin: 40 CFR 60.4, 60.7(c), and 60.45(g))

II.B.2.d

**Condition:**

Prior to completion of the scrubber upgrade installation, emissions of particulate matter (PM) shall not be greater than 0.10 lb/MMBtu heat input except during periods of startup, shutdown, maintenance/planned outage or malfunction. [Origin: DAQE-AN0102380021-10] [40 CFR 60 Subpart D, R307-401-8(1)(a)(BACT)]

#### II.B.2.d.1

#### **Monitoring:**

(a) Stack testing to show compliance with the PM emission limitations shall be performed as specified below:

(1) Testing and Frequency. Emissions shall be tested each year. The source may also be tested at any time if directed by the Executive Secretary.

(2) Notification. The permittee shall provide a notification of the test date at least 30 days before the test. A pretest conference shall be held, if directed by the Executive Secretary, between the permittee, the tester, and the Executive Secretary.

(3) Compliance determination procedures and stack test methods shall be performed according to 40 CFR 60 Subpart D, 60.46.

(b) Opacity shall be used as an indicator to provide a reasonable assurance of compliance with the PM emission limitation as specified below:

(1) Measurement Approach: Opacity shall be determined by using a COM located in the exhaust stack.

(2) Indicator Range: An excursion is defined as a 3-hour fixed block average opacity measurements in excess of 25% as measured by a COM, except for periods of startup, shutdown, maintenance/planned outage or malfunction. Excursions trigger an inspection and review of the ESP performance as indicated by other parameters (to confirm if opacity is valid and to determine the ESP operating deficiencies), corrective action, and a reporting requirement. Provision II.B.2.d.1(B)(2) of this permit does not constitute a waiver, nor a shield against enforcement, of Provision II.B.2.f of this permit condition.

(3) Performance Criteria:

(A) Data Representativeness: Measurements made by a COM shall provide a direct indicator of ESP performance. Each COM shall be installed and operated in accordance with 40 CFR 60.47a, Emission Monitoring (subparagraphs (a), (e), (f), and (i), and 60.13, Monitoring Requirements (subparagraphs (e) and (h), and meeting the quality assurance requirements outlined at 40 CFR 60.13 (d) and (e); 40 CFR Part 60, Appendix B, Performance Specification 1, and R307-170.

(B) QA/QC Practices and Criteria: Each COM shall be operated, calibrated, and maintained to meet 40 CFR 60, Appendix B, Performance Specification 1.

(C) Monitoring Frequency: Opacity shall be monitored continuously and a data point recorded every 10 seconds.

(D) Data Collection Procedure: Opacity data shall be recorded and stored electronically.

(E) Averaging Period: Use the 10-second opacity data to calculate 6-minute averages and the 6-minute averages to calculate the 3-hour fixed block average.

#### II.B.2.d.2

#### **Recordkeeping:**

In addition to the recordkeeping requirement described in Provision I.S.1 of this permit,

(a) The permittee shall maintain a file of all stack testing and all other information required by permit provision I.S.1 and applicable portions of 40 CFR Part 60, Subparts A and D recorded in a permanent form suitable for inspection (40 CFR 60.7(f))

(b) The permittee shall maintain a file of all continuous opacity monitor (COM) measurements, including performance testing measurements, all COM performance evaluations, all COM calibration checks, all COM adjustments and maintenance, and all other information required by applicable portions of 40 CFR Part 60, Subparts A and D recorded in a permanent form suitable for inspection (40 CFR 60.7(f)).

(c) The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the unit; or any malfunction of the air pollution control equipment (40 CFR 60.7(b)).

(d) The permittee shall maintain a file of the occurrence and duration of any excursion, corrective actions taken, and any other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Instead of paper records, the permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements (40 CFR 64.9(b)).

#### II.B.2.d.3

#### **Reporting:**

(a) The monitoring report required in Provision I.S.2 of this permit shall include, at a minimum, the following information, as applicable:

(1) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;(40 CFR 64.9(a)(2)(i))

(2) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable). (40 CFR 64.9(a)(2)(ii))

(b) The results of stack testing shall be submitted to the Executive Secretary within 60 days of completion of the testing. Reports shall clearly identify results as compared to permit limits and indicate compliance status.

#### II.B.2.e

#### **Condition:**

Following installation of the fabric filter baghouse, emissions of particulate matter (PM) shall not be greater than 74 lb/hr except during periods of startup, shutdown, maintenance/planned outage or malfunction. [Origin: DAQE-AN0102380021-10]. [40 CFR 60 Subpart D, R307-401-8(1)(a)(BACT)]

#### II.B.2.e.1

#### **Monitoring:**

(a) Stack testing to show compliance with the PM emission limitations shall be performed as specified below:

(1) Testing and Frequency. Emissions shall be tested within 180 days of operations of the new baghouse and annually thereafter. The source may also be tested at any time if directed by the Executive Secretary.

(2) Notification. The permittee shall provide a notification of the test date at least 30 days before the test. A pretest conference shall be held, if directed by the Executive Secretary, between the permittee, the tester, and the Executive Secretary.

(3) Method 5B shall be used for PM emission or other testing methods approved by the Executive Secretary. The back half condensables shall also be tested using the referenced method 202. The back half condensables shall not be used for compliance demonstration but shall be used for inventory purposes.

(b) Within 360 days of the operation of new pollution control equipment, the permittee shall submit a Compliance Assurance Plan (CAM) for PM emission as required under 40 CFR 64. The permittee shall conduct a correlation testing to develop correlation between PM emissions and operation parameters of the pulse jet fabric baghouse and FGD system. The permittee shall submit a correlation testing plan to the Executive Secretary for approval within 180 days of the operation of the pulse jet fabric filter baghouse and FGD system. The permittee shall complete

the correlation test for developing the CAM within 270 days of the operation of the pulse jet fabric filter baghouse and FGD system.

**II.B.2.e.2 Recordkeeping:**

Results of all stack testing and correlation testing shall be recorded and maintained in accordance with the associated test method and Provision S.1 in Section I of this permit.

**II.B.2.e.3 Reporting:**

The results of stack testing shall be submitted to the Executive Secretary within 60 days of completion of the testing. Reports shall clearly identify results as compared to permit limits and indicate compliance status. The CAM plan for PM emissions should be submitted to the Executive Secretary within 360 days of the operation of new pollution control equipment.

**II.B.2.f Condition:**

Visible emissions shall be no greater than 20 percent opacity (six-minute average) except for one six-minute period per hour of not more than 27 percent opacity and except during periods of start-up, shutdown, maintenance/planned outage, or malfunction. [Origin: DAQE-AN0102380021-10]. [R307-401-8(1)(a)(BACT), 40 CFR 60 Subpart D]

**II.B.2.f.1 Monitoring:**

(a) The permittee shall determine compliance with the visible emission limit by a continuous opacity monitoring (COM) system installed and operated in accordance with 40 CFR 60.45, Emission and fuel monitoring (subparagraphs (a) and (g)) and 60.13(e).

(b) Each continuous opacity monitoring system shall meet the following quality assurance requirements:

40 CFR 60.13, Monitoring requirements (subparagraphs (d) and (f))  
40 CFR Part 60, Appendix B, Performance Specification 1, Specifications and Test Procedures for Opacity Continuous Emission Monitoring Systems in Stationary Sources R307-170, Continuous Emission Monitoring System Program

**II.B.2.f.2 Recordkeeping:**

(a) The permittee shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by applicable portions of 40 CFR Part 60, Subparts A and D recorded in a permanent form suitable for inspection. (40 CFR 60.7(f))

(b) The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the unit; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative (40 CFR 60.7(b)). (origin: 40 CFR 60.7(b) & (f) and R307-415-6a(3)(B)(ii))

**II.B.2.f.3 Reporting:**

(a) The permittee shall submit excess emission reports required by 40 CFR 60.7(c) and (d) and 40 CFR 60.45(g), Reporting requirements. A data assessment report required by Appendix F,

Procedure 1, Section 7 to 40 CFR Part 60, or by 40 CFR 75 Appendix B, shall be submitted with the excess emission report.

(b) The permittee shall submit notifications and reports to the Executive Secretary as required by R307-170, Continuous Emission Monitoring Systems Program.

(c) A copy of all reports required by 40 CFR Part 60 to be submitted to the Executive Secretary (permitting authority) shall also be submitted to USEPA, Region VIII, if requested. (40 CFR 60.4 and 60.7(c))

(d) The reports required in paragraphs a, b, and c above are considered prompt notification of permit deviations required in provision I.S.2.c of this permit if all information required by provision I.S.2.c is included in the report. (origin: 40 CFR 60.4, 60.7(c), and 60.45(g))

**II.B.2.g Condition:**

Following installation of the low-NO<sub>x</sub> system, emission of CO shall be no greater than 0.34 lb/MMBtu (1,686 lb/hr) based on a 30-day rolling average except during periods of startup, shutdown, maintenance/planned outage, or malfunction. [Origin: DAQE-AN0102380021-10]. [R307-401-8(1)(a)(BACT)]

**II.B.2.g.1 Monitoring:**

The emission of CO shall be monitored by continuous emission monitoring system (CEMS). The permittee shall calibrate, maintain, and operate a CEMS as required by R307-170 to determine compliance with CO concentration. The quality assurance requirements of R307-170, Continuous Emission Monitoring Systems Program, shall be used to fulfill data quality assurance requirements. The hourly average of CO emissions shall be calculated every hour and the daily average shall be calculated using the hourly average data. The daily average of CO emission shall be used to calculate 30-day rolling average.

**II.B.2.g.2 Recordkeeping:**

In addition to the recordkeeping requirement described in Provision I.S.1 of this permit,

(a) The permittee shall maintain a file of all stack testing and all other information required by permit provision I.S.1 in a permanent form suitable for inspection.

(b) The permittee shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by applicable requirements of R307-170.

**II.B.2.g.3 Reporting:**

(a) The results of stack testing shall be submitted to the Executive Secretary within 60 days of completion of the testing. Reports shall clearly identify results as compared to permit limits and indicate compliance status.

(b) The permittee shall submit notifications and reports to the Executive Secretary as required by R307-170, Continuous Emission Monitoring Systems Program. (c) The reports required in paragraph (b) above are considered prompt notification of permit deviations required in provision I.S.2.c of this permit if all information required by provision I.S.2.c is included in the report.

(c) The reports required in paragraph (b) above are considered prompt notification of permit deviations required in provision I.S.2.c of this permit if all information required by provision I.S.2.c is included in the report.

II.B.3 **Conditions on Boiler Unit #2 (EU #2).**

II.B.3.a **Condition:**

Visible emissions shall be no greater than 20 percent opacity (six-minute average) except for one six-minute period per hour of not more than 27 percent opacity and except during periods of start-up, shutdown, maintenance/planned outage, or malfunction. [Origin: DAQE-0102380021-10]. [R307-201-1]

II.B.3.a.1 **Monitoring:**

(a) The permittee shall determine compliance with the visible emission limit by a continuous opacity monitoring (COM) system installed and operated in accordance with 40 CFR 60.45, Emission and fuel monitoring (subparagraphs (a) and (g)) and 60.13(e).

(b) Each continuous opacity monitoring system shall meet the following quality assurance requirements:

40 CFR 60.13, Monitoring requirements (subparagraphs (d) and (f))  
40 CFR Part 60, Appendix B, Performance Specification 1, Specifications and Test Procedures for Opacity Continuous Emission Monitoring Systems in Stationary Sources  
R307-170, Continuous Emission Monitoring System Program

II.B.3.a.2 **Recordkeeping:**

(a) The permittee shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices;

(b) The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the unit; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

II.B.3.a.3 **Reporting:**

In addition to the reports required in Section I of this permit, the following reports shall be submitted:

(a) The permittee shall submit notifications and reports to the Executive Secretary as required by R307-170, Continuous Emission Monitoring Systems Program.

(b) The reports required in paragraph a above are considered prompt notification of permit deviations required in provision I.S.2.c of this permit if all information required by provision I.S.2.c is included in the report.

(c) An annual projection of planned outages for steam boilers and associated pollution control equipment shall be submitted to the Executive Secretary not later than January 30 for each calendar year.

(d) Changes to the schedule of planned outages shall be reported to the Executive Secretary within 96 hours after the start of the outage.

(e) Maintenance outages shall be reported promptly or according to other applicable reporting criteria in Provision I.S.

**II.B.3.b Condition:**

Emissions of SO<sub>2</sub> shall be no greater than 0.12 lb/MMBtu heat input for any 24-hour block average except during periods of startup, shutdown, maintenance/planned outage, or malfunction. [Origin: DAQE-AN0102380021-10]. [R307-401-8(1)(a)(BACT)]

**II.B.3.b.1 Monitoring:**

(a) The permittee shall install, calibrate, maintain, and operate a continuous monitoring system for measuring emissions.

(b) Each continuous emission monitoring system shall meet the quality assurance requirements of R307-170, Continuous Emission Monitoring Systems Program and 40 CFR Part 75, Appendix A, Specification and Test Procedures as follows:

1. Installation and Measurement Location
2. Equipment Specifications (except the requirement for a low range in 2.1.1.2)
3. Performance Specifications
4. Data Acquisition and Handling Systems
5. Calibration Gas

**II.B.3.b.2 Recordkeeping:**

(a) The permittee shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices;

(b) The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the unit; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

**II.B.3.b.3 Reporting:**

(a) The permittee shall submit notifications and reports to the Executive Secretary as required by R307-170, Continuous Emission Monitoring Systems Program and comply with the reporting provisions in 40 CFR 75 Subpart G, and all the reporting provisions contained in Section I of this permit.

(b) The reports required in paragraphs a above are considered prompt notification of permit deviations required in provision I.S.2.c of this permit if all information required by provision I.S.2.c is included in the report.

**II.B.3.c Condition:**

Emissions of NO<sub>x</sub> shall be no greater than 0.26 lb/MMBtu heat input for any 30 day rolling average except during periods of startup, shutdown, maintenance/planned outage, or malfunction. [Origin: DAQE-AN0102380021-10]. [R307-401-8(1)(a)(BACT)]

**II.B.3.c.1 Monitoring:**

(a) The permittee shall install, calibrate, maintain, and operate a continuous monitoring system for measuring emissions.

(b) Each continuous emission monitoring system shall meet the quality assurance requirements of R307-170, Continuous Emission Monitoring Systems Program and 40 CFR Part 75, Appendix A, Specification and Test Procedures as follows:

1. Installation and Measurement Location
2. Equipment Specifications (except the requirement for a low range in 2.1.1.2)
3. Performance Specifications
4. Data Acquisition and Handling Systems
5. Calibration Gas

**II.B.3.c.2 Recordkeeping:**

(a) The permittee shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices;

(b) The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the unit; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

**II.B.3.c.3 Reporting:**

(a) The permittee shall submit notifications and reports to the Executive Secretary as required by R307-170, Continuous Emission Monitoring Systems Program and comply with the reporting provisions in 40 CFR 75 Subpart G, and all the reporting provisions contained in Section I of this permit.

(b) The reports required in paragraphs a above are considered prompt notification of permit deviations required in provision I.S.2.c of this permit if all information required by provision I.S.2.c is included in the report.

**II.B.3.d Condition:**

Emissions of particulate matter (PM) shall be no greater than 70 lb/hr except during periods of startup, shutdown, maintenance/planned outage, or malfunction. [Origin: DAQE-AN0102380021-10]. [R307-401-8(1)(a)(BACT)]

**II.B.3.d.1 Monitoring:**

(a) Stack testing to show compliance with the PM emission limitations shall be performed as specified below:

(1) Testing and Frequency. Emissions shall be tested each year. The source may also be tested at any time if directed by the Executive Secretary.

(2) Notification. The permittee shall provide a notification of the test date at least 30 days before the test. A pretest conference shall be held, if directed by the Executive Secretary, between the permittee, the tester, and the Executive Secretary.

(3) Compliance determination procedures and stack test methods shall be performed according to 40 CFR 60 Subpart D, 60.46.

(b) Opacity shall be used as a performance indicator of the baghouse to provide a reasonable assurance of compliance with the PM emission limitation as specified below:

(1) Measurement Approach: Opacity is measured directly by a COM installed in the baghouse outlet duct.

(2) Indicator Range:

(A) An excursion is defined as a 24-hour daily average opacity value greater than the baseline level of 5%. Annually, the permittee should develop a new excursion level during annual performance test using the modified method under 60.48Da(o)(2)(iii) and (iv) (NSPS Subpart Da). The new value of the opacity excursion level shall be determined by averaging all of the 6-minute average opacity values from the COMS measurements recorded during each of the test run intervals conducted for the performance test plus 2.5 percent, or a total opacity value of 5.0%, whichever is greater.

(B) Excursions trigger a baghouse inspection, corrective actions and a reporting requirement. If the measured 24-hour average opacity remains at a level greater than the opacity baseline level after seven consecutive boiler operating days, a new particulate matter performance test will be conducted to establish a new opacity baseline value. This new performance test will be conducted within 60 days of the date that the measured 24-hour average opacity was first determined to exceed the baseline opacity level unless a waiver is granted by the Executive Secretary.

(3) Performance Criteria:

(A) Data Representativeness: Measurements made by COM shall provide a direct indicator of the baghouse performance. COM shall be installed and operated in accordance with 40 CFR Part 60, Appendix B, Performance Specification 1 and R307-170.

(B) QA/QC Practices and Criteria: COM shall be operated, calibrated, and maintained to meet 40 CFR 60, Appendix B, Performance Specification 1.

(C) Monitoring Frequency: Opacity shall be monitored continuously with opacity values averaged every minute.

(D) Data Collection Procedure: Opacity data shall be recorded and stored electronically.

(E) Averaging Period: Use continuous opacity data to calculate 6-minute averages and the 6-minute averages to calculate the 24-hour daily average opacity.

#### II.B.3.d.2

#### **Recordkeeping:**

In addition to the recordkeeping requirement described in Provision I.S.1 of this permit,

(a) The permittee shall maintain a file of all stack testing and all other information required by permit provision I.S.1.

(b) The permittee shall maintain a file of all continuous opacity monitor (COM) measurements, including performance testing measurements, all COM performance evaluations, all COM calibration checks, all COM adjustments and maintenance, and all other information required by applicable portions of 40 CFR Part 60, Subparts A and Db recorded in a permanent form suitable for inspection. (40 CFR 60.7(f))

(c) The permittee shall maintain a file of the occurrence and duration of any excursion, corrective

actions taken, and any other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Instead of paper records, the permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. (40 CFR 64.9(b))

(d) The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the unit; or any malfunction of the air pollution control equipment.

(e) The permittee shall maintain a file of the occurrence and duration of any excursion, corrective actions taken, and any other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Instead of paper records, the permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.

II.B.3.d.3

**Reporting:**

(a) The monitoring report required in Provision I.S.2 of this permit shall include, at a minimum, the following information, as applicable:

(1) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;

(2) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable).

(b) The results of stack testing shall be submitted to the Executive Secretary within 60 days of completion of the testing. Reports shall clearly identify results as compared to permit limits and indicate compliance status.

II.B.4

**Conditions on Coal Conveyors (EU #8).**

II.B.4.a

**Condition:**

All coal conveyors and drop points shall be enclosed or covered. [Origin: DAQE-AN0102380021-10]. [R307-401-8(1)(a)(BACT)]

II.B.4.a.1

**Monitoring:**

Records required for this permit condition will serve as monitoring.

II.B.4.a.2

**Recordkeeping:**

A log shall be maintained for any periods of operation when the required enclosures or covers are removed.

II.B.4.a.3

**Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.5

**Conditions on Emergency Fire Pump (diesel engine) (EU #14)**

II.B.5.a

**Condition:**

By May 3, 2013, the permittee shall comply with the following operating limitations at all times for each emergency affected emission unit:

- (a). The permittee shall operate the affected emission unit according to the conditions described in paragraphs (a)(1) through (a)(4).
  - (1) Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in 1.d, is prohibited.
  - (2) There is no time limit on the use of emergency stationary RICE in emergency situations.
  - (3) Operation for the purpose of maintenance checks and readiness testing is limited to 100 hours per year, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. A petition for approval of additional hours to be used for maintenance checks and readiness testing is not required if the permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.
  - (4) Operation in non-emergency situations is limited to 50 hours per year, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing and shall meet the requirements in 40 CFR 63.6640(f)(4).
  
- (b). The permittee shall meet the following requirements at all times, except during periods of startup:
  - (1) Change oil and filter every 500 hours of operation or annually, whichever comes first;
  - (2) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first;
  - (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.During periods of startup, the permittee shall minimize the engine's time spent at idle and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.
  
- (c) The permittee shall comply with the applicable general provisions in 40 CFR 63.1-15 as identified in Table 8 of 40 CFR 63 Subpart ZZZZ.

[Origin: 40 CFR 63.6595(a)(1), 40 CFR 63.6602, 40 CFR 63.6605(a), 40 CFR 63.6625(h), 40 CFR 63.6640(f), 40 CFR 63.6665, 40 CFR 63 Subpart ZZZZ Table 2c, 40 CFR 63 Subpart ZZZZ Table 8].  
[40 CFR 63 Subpart ZZZZ]

II.B.5.a.1

**Monitoring:**

The permittee shall install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]

If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the required schedule, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The work practice shall be performed as soon as practicable after the emergency has ended or the unacceptable risk under

Federal, State, or local law has abated. [40 CFR 63 Subpart ZZZZ Table 2c Footnote 1]

The permittee shall demonstrate continuous compliance by operating and maintaining the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written operation and maintenance instructions or develop and follow their own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e), 40 CFR 63.6640(a), 40 CFR 63 Subpart ZZZZ Table 6]

The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in accordance with 40 CFR 63.6625(i).

The permittee shall comply with the applicable general provisions in 40 CFR 63.1-15 as identified in Table 8 of 40 CFR 63 Subpart ZZZZ. [40 CFR 63.6665]

#### II.B.5.a.2

##### **Recordkeeping:**

The permittee shall keep the records described in 40 CFR 63.6655(a)(1)-(5) as applicable. [40 CFR 63.6655(a)]

For each affected emission unit that does not meet the standards applicable to non-emergency engines, the permittee shall keep records of the hours of operation of the engine that are recorded through the non-resettable hour meter. The permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the permittee shall keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response. [40 CFR 63.6655(f)]

If additional hours are to be used for maintenance checks and readiness testing, the permittee shall maintain records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. [40 CFR 63.6640(f)(3)]

The permittee shall keep records that demonstrate continuous compliance with each applicable operating limitation including, but not limited to, the manufacturer's emission-related operation and maintenance instructions or the permittee-developed maintenance plan. [40 CFR 63.6655(d), 40 CFR 63 Subpart ZZZZ Table 6]

Records of the maintenance conducted shall be kept in order to demonstrate that the permittee operated and maintained the affected emission unit and after-treatment control device (if any) according to their own maintenance plan. [40 CFR 63.6655(e)]

The permittee shall comply with the applicable general provisions in 40 CFR 63.1-15 as identified in Table 8 of 40 CFR 63 Subpart ZZZZ. [40 CFR 63.6665]

Records shall be maintained in accordance with 40 CFR 63.6660 and Provision I.S.1 of this permit.

#### II.B.5.a.3

##### **Reporting:**

The permittee shall report any failure to perform the work practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable. [40 CFR 63 Subpart ZZZZ Table 2c Footnote 1]

The permittee shall report each instance in which it did not meet an applicable operating

limitation in 40 CFR 63 Subpart ZZZZ Table 2c. These instances are deviations from the operating limitations. These deviations shall be reported according to the requirements in 40 CFR 63.6650. [40 CFR 63.6640(b)]

The permittee shall submit each report in 40 CFR 63 Subpart ZZZZ Table 7 as applicable. [40 CFR 63.6650(a)]

If there are no deviations from any applicable operating limitations, the permittee shall submit a compliance report semiannually for affected emission units according to the requirements of 40 CFR 63.6650(b)(1)-(5) that contains the information required in 40 CFR 63.6650(c)(1)-(3) and a statement that there were no deviations from the operating limitations during the reporting period. [40 CFR 63 Subpart ZZZZ Table 7.1.a]

If a deviation from any operating limitation occurs during the reporting period, the permittee shall submit a compliance report semiannually according to the requirements of 40 CFR 63.6650(b), (f) that contains the information required in 40 CFR 63.6650(c)(1)-(3), (d). [40 CFR 63 Subpart ZZZZ Table 7.1.b]

If a malfunction occurs during the reporting period, the permittee shall submit a compliance report semiannually according to the requirements of 40 CFR 63.6650(b) that contains the information required in 40 CFR 63.6650(c)(1)-(4). [40 CFR 63 Subpart ZZZZ Table 7.1.c]

The permittee shall comply with the applicable general provisions in 40 CFR 63.1-15 as identified in 40 CFR 63 Subpart ZZZZ Table 8. [63.6665] The permittee shall also report each instance in which it did not meet the applicable requirements in Table 8. [40 CFR 63.6640(e)]

There are no additional reporting requirements for this provision except those specified in Section I of this permit.

**II.B.5.b Condition:**

By May 3, 2013, at all times the permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [Origin: 40 CFR 63.6595(a)(1), 40 CFR 63.6605(b)]. [40 CFR 63 Subpart ZZZZ]

**II.B.5.b.1 Monitoring:**

Records required for this permit condition will serve as monitoring.

**II.B.5.b.2 Recordkeeping:**

The permittee shall keep the records described in 40 CFR 63.6655(a)(1)-(5) as applicable. [40 CFR 63.6655(a)] The permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with 40 CFR 63.6660 and Provision I.S.1 of this permit. [40 CFR 63 Subpart ZZZZ]

II.B.5.b.3

**Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.6

**Conditions on Emission Units Subject to 40% Opacity Limit (EU #34).**

II.B.6.a

**Condition:**

Visible emissions shall be no greater than 40 percent opacity. [Origin: R307-201-3]. [R307-201-3]

II.B.6.a.1

**Monitoring:**

A visual opacity survey of each affected emission unit shall be performed on a monthly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than steam are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9. If opacity exceeds the limit, maintenance shall be performed on the affected unit to correct the problem.

II.B.6.a.2

**Recordkeeping:**

A log of the visual opacity survey(s) shall be maintained in accordance with Provision I.S.1 of this permit. If an opacity determination is indicated, a notation of the determination shall be made in the log. All data required by 40 CFR 60, Appendix A, Method 9 shall also be maintained in accordance with Provision I.S.1 of this permit. If excess visible emission is indicated, a notation of the resulting maintenance activity shall also be made in the log, and shall include the date of the maintenance request, the date the maintenance was performed, the type of maintenance performed, and the name of the person responsible for the maintenance.

II.B.6.a.3

**Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.7

**Conditions on Coal handling and Blending Equipments (EU #41).**

II.B.7.a

**Condition:**

Visible emissions shall be no greater than 5 percent opacity for all conveyor transfer points and conveyor drop points. [Origin: DAQE-AN0102380021-10]. [R307-401-8(1)(a)(BACT), 40 CFR 60 Subpart Y]

II.B.7.a.1

**Monitoring:**

An opacity determination shall be conducted once in each quarter that the affected emission unit is operated. The opacity determination shall be conducted in accordance with 40 CFR 60, Appendix A, Method 9.

II.B.7.a.2

**Recordkeeping:**

All data required by 40 CFR 60, Appendix A, Method 9 shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.7.a.3

**Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.7.b

**Condition:**

Visible emissions shall be no greater than 10 percent opacity for the truck unloading hopper, radial stacker and all screens. [Origin: DAQE-AN0102380020-10]. [R307-401-8(1)(a)(BACT), 40 CFR 60 Subpart Y]

II.B.7.b.1

**Monitoring:**

A visual observation of each affected emission unit shall be performed once each month that the unit operates, by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. The individual is not required to be a certified visible emissions observer (VEO). If any visible emissions are observed, an opacity determination of that emission unit shall be performed by a certified VEO in accordance with 40 CFR 60, Appendix A, Method 9 within 24 hours of the initial observation.

II.B.7.b.2

**Recordkeeping:**

A log of the visual opacity survey(s) shall be maintained in accordance with Provision I.S.1 of this permit. If an opacity determination is indicated, a notation of the determination will be made in the log. All data required by 40 CFR 60, Appendix A, Method 9 shall also be maintained in accordance with Provision I.S.1 of this permit.

II.B.7.b.3

**Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.8

**Conditions on Unit 1 Coal Mill Reject Material Drops (EU #42).**

II.B.8.a

**Condition:**

Visible emissions shall be no greater than 20 percent opacity for the conveyor belt. [Origin: 40 CFR Part 60, Subpart Y]. [40 CFR 60 Subpart Y]

II.B.8.a.1

**Monitoring:**

A visual observation of each affected emission unit shall be performed once each month that the unit operates, by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. The individual is not required to be a certified visible emissions observer (VEO). If any visible emissions are observed, an opacity determination of that emission unit shall be performed by a certified VEO in accordance with 40 CFR 60, Appendix A, Method 9 within 24 hours of the initial observation.

II.B.8.a.2

**Recordkeeping:**

A log of the visual opacity survey(s) shall be maintained in accordance with Provision I.S.1 of this permit. If an opacity determination is indicated, a notation of the determination will be made in the log. All data required by 40 CFR 60, Appendix A, Method 9 shall also be maintained in accordance with Provision I.S.1 of this permit.

II.B.8.a.3

**Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.9

**Conditions on Unit 2 Coal Mill Reject Material Drops (EU #43).**

II.B.9.a

**Condition:**

Visible emissions shall be no greater than 20 percent opacity for the conveyor belt. [Origin: 40 CFR 60, Subpart Y]. [40 CFR 60 Subpart Y]

II.B.9.a.1

**Monitoring:**

A visual observation of each affected emission unit shall be performed once each month that the unit operates, by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. The individual is not required to be a certified visible emissions observer (VEO). If any visible emissions are observed, an opacity determination of that emission unit shall be performed by a certified VEO in accordance with 40 CFR 60, Appendix A, Method 9 within 24 hours of the initial observation.

II.B.9.a.2

**Recordkeeping:**

A log of the visual opacity survey(s) shall be maintained in accordance with Provision I.S.1 of this permit. If an opacity determination is indicated, a notation of the determination will be made in the log. All data required by 40 CFR 60, Appendix A, Method 9 shall also be maintained in accordance with Provision I.S.1 of this permit.

II.B.9.a.3

**Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.10

**Conditions on Real Time Coal Analyzer (EU #44).**

II.B.10.a

**Condition:**

There shall be no visible emissions at the Real-Time coal analyzer and all conveyor transfer points and conveyor drop points associated for the Real-Time coal analyzer equipment. [Origin: DAQE-AN0102380021-10]. [R307-401-8(1)(a)(BACT)]

II.B.10.a.1

**Monitoring:**

A visual observation of each affected emission unit shall be performed once each month that the unit operates, by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. The individual is not required to be a certified visible emissions observer (VEO). If any visible emissions are observed, corrective actions are required to bring the visible emissions down to zero within 24 hours of the initial observation.

II.B.10.a.2

**Recordkeeping:**

A log of the visual inspections and corrective actions, if required, shall be maintained including the date and time of each inspection and the name of the person making the inspection or corrective actions.

II.B.10.a.3

**Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.11

**Conditions on Unit #2 Fabric Filter Group (EU #45).**

II.B.11.a

**Condition:**

Visible emissions shall be no greater than 10 % opacity. [Origin: DAQE-AN0102380021-10]. [R307-401-8(1)(a)(BACT)]

II.B.11.a.1

**Monitoring:**

- (a) Measurement Approach: A visual observation of each affected unit shall be made at least once each day using 40 CFR Part 60, Appendix A, Reference Method 22-like procedures.
- (b) Indicator Range: An excursion is defined as the presence of visible emissions. If visible emissions are noted, a Method 9 VEO shall be conducted to determine the percent opacity or maintenance shall be performed on the affected unit to correct the problem within 24 hours of the initial observation.
- (c) Performance Criteria:
  - (1). Data Representativeness: A visual observation shall be made on each applicable emission point.
  - (2). QA/QC Practices and Criteria: The visual observer shall be familiar with Reference Method 22 and follow Method 22-like procedures. The opacity determination shall be conducted by a certified VEO in accordance with 40 CFR 60, Appendix A, Method 9.
  - (3). Monitoring Frequency: A Method 22-like observation shall be performed daily for each affected unit. The observation shall be conducted for a period of no less than six minutes.
  - (4). Data Collection Procedure: The observation shall be documented by the observer and all data required by 40 CFR 60, Appendix A, Method 9 shall be maintained if the opacity determination is conducted. (40 CFR 64.3)

II.B.11.a.2

**Recordkeeping:**

In addition to the recordkeeping requirement described in Provision I.S.1 of this permit, the permittee shall maintain a file of the occurrence and duration of any excursion, corrective actions taken, and any other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Instead of paper records, the permittee may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the

use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements. (40 CFR 64.9(b)).

II.B.11.a.3      **Reporting:**

In addition to the reporting requirement described in Provision I.S.2 of this permit, the monitoring report shall include, at a minimum, the following information, as applicable:

(a) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;(40 CFR 64.9(a)(2)(i))

(b) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable). (40 CFR 64.9(a)(2)(ii))

II.B.12      **Conditions on Unit #2 Fabric filters Group (EU #46).**

II.B.12.a      **Condition:**

Visible emissions shall be no greater than 10 % opacity from each affected unit. [Origin: DAQE-AN0102380021-10]. [R307-401-8(1)(a)(BACT)]

II.B.12.a.1      **Monitoring:**

A visual observation of each affected emission unit shall be performed on a weekly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. The individual is not required to be a certified visible emissions observer (VEO). If any visible emissions are observed, an opacity determination of that emission unit shall be performed by a certified VEO in accordance with 40 CFR 60, Appendix A, Method 9 within 24 hours of the initial observation.

II.B.12.a.2      **Recordkeeping:**

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.12.a.3      **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.C      **Emissions Trading**  
(R307-415-6a(10))

Not applicable to this source.

II.D      **Alternative Operating Scenarios.**  
(R307-415-6a(9))

Not applicable to this source.

II.E      **Source-specific Definitions.**

The following definitions apply to the permittee. They include terms not defined in state or federal rules or clarify or expand on existing definitions.

**Startup.** Start-up means the setting in operation of an affected facility for any purpose. For these units, startup begins with introduction of fuel into the boiler. Startup ends when the unit is in stable operation with three pulverizers and coal feeders in service, and when the following operating parameters are met: (1) the temperature of both inlets to the electrostatic precipitator or fabric filter baghouse reach 220°F, and (2) less than 10 percent of the boiler's heat input is being furnished by fuel oil.

**Shutdown.** Shutdown means the cessation of operation of an affected facility for any purpose. For this permitted source, shutdown begins when the unit load or output is reduced with the intent of removing the unit from service, or when the unit trips as the result of a sudden and unforeseen failure or malfunction. Shutdown ends when the feeding of fuel to the boiler ceases.

**Downtime.** Downtime is that time between the end of shutdown and the beginning of startup in which the affected source has temporarily ceased operation.

**Maintenance Outage.** The removal of equipment from service availability to perform work on specific components that can be deferred beyond the end of the next weekend, but requires the equipment be removed from service before the next planned outage. Typically, a Maintenance Outage may occur anytime during the year, have a flexible start date, and may or may not have a predetermined duration.

**Planned Outage.** Removing the equipment from service availability for inspection and/or general overhaul of one or more major equipment groups. This outage usually is scheduled well in advance.

## **SECTION III: PERMIT SHIELD**

The following requirements have been determined to be not applicable to this source in accordance with Provision I.M, Permit Shield:

- III.A. this permit (40 CFR, Part 60, Subpart O (NSPS for Sewage Treatment Plants) )
- This regulation is not applicable to the Permitted Source for the following reason(s): an affected facility as defined in these regulations (incinerator that combusts wastes > 10% of sewage sludge or > 2205 lb/day of sewage sludge) is not located at this source. [Last updated December 15, 2008]
- III.B. this permit (40 CFR, Part 60, Subpart OOO (Non-metallic mineral processing)
- This regulation is not applicable to the Permitted Source for the following reason(s): the process of crushing and grinding nonmetallic minerals is not performed at this source. [Last updated December 15, 2008]
- III.C. this permit (40 CFR, Part 60, Subpart Da (NSPS for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978) )
- This regulation is not applicable to the Boiler Unit #1 (EU #1) for the following reason(s): this unit was constructed prior to September 18, 1978. [Last updated December 15, 2008]
- III.D. this permit (40 CFR, Part 60, Subpart D (NSPS for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971)) )
- This regulation is not applicable to the Boiler Unit #2 (EU #2) for the following reason(s): this unit was constructed prior to August 17, 1971. [Last updated December 15, 2008]
- III.E. this permit (40 CFR, Part 60, Subpart Da (NSPS for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978) )
- This regulation is not applicable to the Boiler Unit #2 (EU #2) for the following reason(s): this unit was constructed prior to September 18, 1978. [Last updated December 15, 2008]
- III.F. this permit (40 CFR, Part 60, Subparts K, Ka, Kb (NSPS/ Volatile Organic Liquid Storage Vessels) )
- This regulation is not applicable to the Distillate Fuel Oil Tanks (EU #20) for the following reason(s): Subpart K, 60.111(b) and Ka, 60.111a(b) state that the standard does not apply to Nos. 2 through 6 fuel oils or diesel fuel oil. Subpart Kb is not applicable because the tanks were constructed prior to 1984. [Last updated December 15, 2008]
- III.G. this permit (40 CFR, Part 60, Subparts K, Ka, Kb (NSPS/ Volatile Organic Liquid Storage Vessels) )
- This regulation is not applicable to the Gasoline Vehicle Refueling Station and Tanks (EU # for the following reason(s): the two 1,500 gallon gasoline tanks have a capacity below the applicability criteria of any of the three standards. [Last updated December 15, 2008]
- III.H. this permit (40 CFR, Part 63, Subpart Q (NESHAP for Industrial Process Cooling Towers) )

This regulation is not applicable to the Unit #1 Cooling Towers (EU #5) for the following reason(s): the cooling towers are not operated with chromium-based water treatment chemicals. [Last updated December 15, 2008]

III.I. this permit (40 CFR, Part 63, Subpart Q (NESHAP for Industrial Process Cooling Towers) )

This regulation is not applicable to the Unit #2 Cooling Towers (EU #6) for the following reason(s): the cooling towers are not operated with chromium-based water treatment chemicals. [Last updated December 15, 2008]

## **SECTION IV: ACID RAIN PROVISIONS**

### **IV.A Utah Acid Rain Program Authority.**

Authority to implement the Acid Rain Program is contained in R307-417, Permits: Acid Rain Sources, and R307-415-6a(4), Standard permit requirements [for operating permits].

### **IV.B Permit Requirements.**

IV.B.1 The designated representative of the source and each affected unit at the source shall:

IV.B.1.a Submit a complete Acid Rain permit application (including a compliance plan) under R307-417 and 40 CFR Part 72 in accordance with the deadlines specified in 40 CFR 72.30; and

IV.B.1.b Submit in a timely manner any supplemental information that the Executive Secretary determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

IV.B.2 The owners and operators shall:

IV.B.2.a Operate each affected unit at the source in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the Executive Secretary; and

IV.B.2.b Have an Acid Rain Permit.

### **IV.C Sulfur Dioxide Requirements.**

IV.C.1 The owners and operators of each affected unit at the source shall:

IV.C.1.a Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and

IV.C.1.b Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

IV.C.2 Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.

IV.C.3 An affected unit shall be subject to the requirements under Provision IV.C.1. of the sulfur dioxide requirements as follows:

IV.C.3.a Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or

IV.C.3.b Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR Part 75, an affected unit under 40 CFR 72.6(a)(3).

IV.C.4 Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

IV.C.5 An allowance shall not be deducted in order to comply with the requirements under Provision IV.C.1.a. of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.

IV.C.6 An allowance allocated by the Administrator, USEPA, under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or the written exemption under 40 CFR 72.7 and 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

IV.C.7 An allowance allocated by the Administrator, USEPA, under the Acid Rain Program does not constitute a property right.

IV.D **Nitrogen Oxides Requirements.**

IV.D.1 In lieu of complying with the applicable NO<sub>x</sub> emission limitation in 40 CFR 76.5, 76.6, or 76.7, any affected units subject to such emission limitation, under control of the same owner or operator, and having the same designated representative may average their NO<sub>x</sub> emissions under an averaging plan approved under 40 CFR 76.11.

IV.D.2 Pursuant to 40 CFR 76.11, the Executive Secretary approves a NO<sub>x</sub> emissions averaging plan submitted by the permittee on December 5, 2007.

IV.D.2.a The content of the averaging plan is as follows:

State	Plant Name	ID#	Emission Limitation Lb/MMBtu	ACEL, lb/MMBtu	Annual Heat Input Limit, MMBtu
WY	Dave Johnston	BW41	0.46	0.50	11,549,948
WY	Dave Johnston	BW42	0.46	0.50	11,324,966
WY	Dave Johnston	BW43	0.68	0.60	17,861,947
WY	Dave Johnston	BW44	0.40	0.45	37,651,633
UT	Hunter	1	0.40	0.45	37,190,484
UT	Hunter	2	0.40	0.45	42,378,322
UT	Hunter	3	0.46	0.40	28,584,717
UT	Huntington	1	0.40	0.40	28,260,974
UT	Huntington	2	0.40	0.26	24,999,208
WY	Jim Bridger	BW71	0.45	0.45	38,072,583
WY	Jim Bridger	BW72	0.45	0.26	40,285,426
WY	Jim Bridger	BW73	0.45	0.26	42,447,268
WY	Jim Bridger	BW74	0.40	0.45	48,214,681
WY	Naughton	1	0.40	0.55	15,982,013
WY	Naughton	2	0.40	0.55	19,658,118
WY	Naughton	3	0.40	0.45	30,352,758
WY	Wyodak	BW91	0.50	0.33	34,389,091
UT	Carbon	1	0.40	0.55	6,123,949

UT	Carbon	2	0.40	0.55	9,449,694
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- IV.D.2.b This plan is effective from calendar year 2008 through calendar year 2012.
- IV.D.2.c In accordance with 40 CFR 72.40(b)(2), approval of the averaging plan shall be final only when the Wyoming Department of Environmental Quality, Air Quality Division has also approved the averaging plan.
- IV.D.3 Pursuant to 40 CFR 76.11(d)(1), each affected unit in the approved averaging plan is in compliance with the Acid Rain emission limitation for NO<sub>x</sub> under the plan only if the following requirements are met:
- IV.D.3.a For each unit, the unit's actual annual average emission rate for the calendar year, in lb/MMBTU, is less than or equal to its alternative contemporaneous annual emission limitation (ACEL) in the averaging plan; and
- IV.D.3.a.1 For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in §§76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan;
- IV.D.3.a.2 For each unit with an alternative contemporaneous annual emission limitation more stringent than the applicable emission limitation in §§76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan; or
- IV.D.3.b If one or more of the units does not meet the requirements under Provision IV.D.3.a, the designated representative shall demonstrate, in accordance with 40 CFR 6.11(d)(1)(ii)(A) that the actual Btu weighted annual average emission rate for the units in the plan is less than or equal to the Btu weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in §§76.5, 76.6, or 76.7.
- .
- IV.D.3.b.1 A group showing of compliance shall be made based on the Equation 2 of 40 CFR 76.11(d).
- IV.D.3.b.2 For units with an alternative emission limitation, applicable annual emission limitation (R<sub>li</sub>) in the equation 2 of 40 CFR 76.11(d) shall equal the applicable emission limitation under 40 CFR 76.5, 75.6 or 76.7, not the alternative emission limitation.
- IV.D.3.b.3 If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous annual emission limitations and annual heat input limits under Provision IV.D.2.aThe owner and cooperators shall adhere the most recent NO<sub>x</sub> averaging plan approved under 40 CFR 76.11.
- IV.D.4 The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability of for fulfilling the obligations specified in40 CFR 77 and sections 113 and 411 of the Act.
- IV.D.5 Pursuant to 40 CFR 76.11(d)(3), the designated representative may submit a notification to terminate an approved averaging plan in accordance with 40 CFR 72.40(d) no later than October 1 of the calendar year for which the plan is to be withdrawn or terminated.

IV.D.6 Effective January 1, 2008, Boiler Units #1 and #2 are included in and subject to the averaging plan approved in Provision IV.D.2 of this permit under unit designation Huntington 1 and Huntington 2.

IV.E **Monitoring Requirements.**

IV.E.1 The owners and operators and, to the extent applicable, designated representative of each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR Parts 74, 75, and 76.

IV.E.2 The emissions measurements recorded and reported in accordance with 40 CFR Part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.

IV.E.3 The requirements of 40 CFR Parts 74 and 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

IV.F **Recordkeeping and Reporting Requirements.**

IV.F.1 Unless otherwise provided, the owners and operators for each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator, USEPA, or Executive Secretary:

IV.F.1.a The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;

IV.F.1.b All emissions monitoring information, in accordance with 40 CFR Part 75;

IV.F.1.c Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,

IV.F.1.d Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

IV.F.2 The designated representative of each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR Part 72 Subpart I and 40 CFR Part 75.

IV.G **Excess Emissions Requirements.**

IV.G.1 The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan to the Administrator, USEPA, as required under 40 CFR Part 77.

- IV.G.2 The owners and operators of an affected unit that has excess emissions in any calendar year shall:
- IV.G.2.a Pay without demand the penalty required, and pay upon demand the interest on that penalty, to the Administrator, USEPA, as required by 40 CFR Part 77; and
- IV.G.2.b Comply with the terms of an approved offset plan, as required by 40 CFR Part 77.
- IV.H **Liability.**
- IV.H.1 Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or a written exemption under R307-417, 40 CFR 72.7 or 40 CFR 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
- IV.H.2 Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
- IV.H.3 No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- IV.H.4 Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
- IV.H.5 Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
- IV.H.6 Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO<sub>x</sub> averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not the owners and operators, owners or operators, or the designated representative.
- IV.H.7 Each violation of a provision of 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.
- IV.H.8 The owners and operators of a unit governed by an approved early election plan shall be liable for any violation of the plan or 40 CFR 76.8 at that unit. The owners and operators shall be liable, beginning January 1, 2000, for fulfilling the obligations specified in 40 CFR Part 77.
- IV.I **Effect on Other Authorities.**
- No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or a written exemption under 40 CFR 72.7 or 72.8 shall be construed as:

- IV.I.1 Except as expressly provided in Title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative from compliance with any other provision of the Act, including the provisions of Title I of the Act relating to applicable National Ambient Air Quality Standards or the Utah State Implementation Plan;
- IV.I.2 Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
- IV.I.3 Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
- IV.I.4 Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
- IV.I.5 Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

## **REVIEWER COMMENTS**

This operating permit incorporates all applicable requirements contained in the following documents:

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Incorporates	DAQE-AN010238021-10 dated January 14, 2010
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1. Comment on an item originating in R307-206-4 regarding Permitted Source  
Abrasive Blasting: Current maintenance practices for the electrostatic precipitators include periodic abrasive blasting to clean components. During these periods, the fans are operated at slow speed to allow the blasting operator to see inside the enclosure. This may result in opacity in excess of 40 percent from a tall boiler stack and would also exceed the 40% limit in R307-206-4. The visible emission limits for the boilers provide that exceedance may not be violations during system maintenance if the permittee complies with requirement to meet "good pollution control practices for minimizing emissions" under 40 CFR 60.11(d). The permittee must be able to demonstrate to the Executive Secretary that any excess emissions are being minimized if the 40 percent limit is exceeded. [Comment last updated on 8/23/2006]
  
2. Comment on an item originating in R307-206 regarding Permitted Source  
Abrasive blasting language correction: The original permit language for this requirement referred to portions of the rule that apply only to sources in non-attainment areas. The condition was changed to match the attainment-area condition used for the Hunter plant. [Comment last updated on 3/12/1999]
  
3. Comment on an item originating in this permit regarding Permitted Source  
Changes made in the administrative amendment in September 2006: CHANGED without active app) Section II.A: Modification to EU #.2 to include new pollution control equipment, modification to EU #34 to include EU #35, deletion of EU #19, and addition of new Emission Units # 44 through 46.  
Section II.B:  
II.B.1.d.1. Modification has been made in accordance with R307-206-4;  
II.B.1.g: this condition was applied to boiler Unit #1 in the previous version (II.B.2.b) and applies permitted source wide now;  
II.B.3, II.B.9, II.B.10, and II.B.11 contain new conditions to applicable units;  
Engineer Review #2 and #11 in the previous version are deleted and Review #2 is updated to reflect the changes of numbering in the State rule.  
CAM applicability: CAM applies to Boiler Unit #2 and EU #45. [Comment last updated on 9/07/2006]
  
4. Comment on an item originating in renewal permit regarding Permitted Source  
Description of changes in the renewal permit (2004): The CAM for PM emission for Boiler Unit 1 is included in the permit. RMP is not required and removed from the permit. Both auxiliary steam boilers are not in operation and removed from the permit. Two existing emission units (#42 & #43) for coal processing are added into the permit. [Comment last updated on 3/08/2004]
  
5. Comment on an item originating in this permit regarding Permitted Source  
Description of changes in the renewal permit (2010): (1) The CAM for PM emission for Boiler Unit 2 is included in the permit. The CAM plan is developed using the guidelines indicated in 40 CFR 48Da(o) which provides an approach to use opacity as an indicator of

compliance with the applicable PM emission standard. Emission testing conducted on Unit#2 in September 2009 was used to establish the initial baseline level/indicator range value. The average opacity value during testing was 1.7 percent. For purposes of this CAM plan the baseline level/indicator range value is currently set at 5.0 percent opacity. Annual PM emissions testing will be conducted within 12 calendar months following completion of the previous year's PM testing to establish new baseline level as per 40 CFR Subpart Da.

(2) RICE MACT applicability: there are three existing CI units in Huntington plant. EU#12 and #13 with a site rating of more than 500 hp and pre-dated December 19, 2002 and are existing emergency CI engines as defined in the subpart. They are not subject to any applicable requirements per 40CFR 63.6590(b)(3). EU #13 with a site rating of less than 500 hp and pre-dated June 12, 2006 and is an existing emergency fire pump as defined in the subpart. It is subject to 40 CFR 63 Subpart ZZZZ as of May 3, 2010. The applicable requirements will not be effective until May 3, 2013 but are added into the proposed permit. All three units are not subject to 40 CFR 60 Subpart IIII since they were installed prior to the applicability dates for Subpart IIII.

(3) Changes approved in the current effective AO are included in the renewal permit. [Last updated June 15, 2010]

6. Comment on an item originating in this permit regarding Permitted Source  
Description of changes in the revision dated on February 14, 2000: Language from 40 CFR 76.11 was added to section IV of the permit to fully approve and incorporate the NO<sub>x</sub> averaging plan originally approved in the June 29, 1999 reopening. Remaining language in section IV was reordered and/or clarified to match part 72 and 76 more closely.

Emission units #29-1 and #29-2, and #30-1 and #30-2, respectively, were duplicated and modified to show that there are separate generator seal oil air detrainment tanks and lube oil reservoirs at each main boiler. The Boiler Unit #2 equipment was added to EU #34, Emission Units Subject to 40% Opacity Limit, since all of that equipment was pre-1971.

One phrase was added to condition II.B.3.b.3 to clarify that the reports in section I are still required.

The original reporting language in condition II.B.2.b.3 was inadvertently replaced in the June 29, 1999 reopening. This error was corrected in this revision with the same modification as above.

Additionally, PacifiCorp submitted notice on June 18, 1999 that the anhydrous sulfur dioxide tanks were out of service due to a change in the FGC (flue gas conditioning) system. This change and the concurrent elimination of chlorine from the cooling water treatment system remove the applicability of condition II.B.1.b, RMP. [Comment last updated on 4/30/2004]

7. Comment on an item originating in PacifiCorp request regarding Permitted Source  
Emission unit descriptions: The original permit language for Emission Units #29-1 and #29-2 mistakenly described emission units as "Lube Oil Conditioners". The source has now corrected the units to "Generator Seal Oil Air Detrainment Tanks". Both emission units still have no applicable requirements, and no substantive change was made to the permit. [Comment last updated on 4/30/2004]
8. Comment on an item originating in this permit, previous version regarding Permitted Source  
Fugitive Dust Control Plan: The original permit (permit #1501001001) condition II.B.1.a required the permittee to submit the dust control plan for Utah DAQ approval. The permittee submitted the fugitive dust control plan in September 30, 1997 and got approval

by Utah DAQ. The fugitive dust control plan approved has been satisfied with the requirement of Title V permit. Utah DAQ may require revision of the fugitive dust control plan if it is determined that the plan is not effective. The permittee may also request revisions to the plan. Revisions to the plan must be submitted in accordance with UAC R307-309-4 and approved by Utah DAQ. Therefore, the permittee is required to minimize the fugitive dust and adhere to the most recently approved fugitive dust control plan. [Comment last updated on 10/05/2006]

9. Comment on an item originating in this permit regarding Permitted Source  
Use of source definitions to improve enforceability: Several definitions are required for this source to more precisely define specific circumstances described in 40 CFR Part 60 during which excess emissions may be generated but may not constitute a violation.  
These definitions include and expand upon the 40 CFR 60.2 definitions of startup and shutdown and are tailored to the equipment used at the permitted source. The definitions have been determined to be more stringent than the Part 60 definitions.  
Part 60 also requires sources to operate and maintain equipment in a manner consistent with good pollution control practice for minimizing emissions (40 CFR 60.11(d)). In order to meet this requirement, sources must perform both scheduled and unscheduled maintenance. These maintenance periods are called planned outages and maintenance outages within the industry. These outages are defined by the North American Electric Reliability Council in its August 1996 Glossary of Terms. The Division of Air Quality and Utah Air Quality Board have required the electric utility plants to submit reports on these maintenance activities to better ensure compliance with Part 60 requirements.  
The term downtime is also defined as the period between startup and shutdown during which the maintenance is performed and during which excess emissions may be generated. These emissions may not be a violation provided the source adheres to good pollution control practices as required by 40 CFR 60.11(d). [Comment last updated on 1/23/2004]
10. Comment on an item originating in this permit regarding Boiler Unit #1 (EU #1)  
Acid Rain Program Affected Units: Steam Generating Units #1 and #2 are affected units under the Acid Rain Program as set forth in 40 CFR Parts 72, 73, 75, 76, 77, and 78. The Acid Rain Boiler ID #'s are Boiler 1 and Boiler 2, respectively. Acid Rain requirements are contained in Section IV of the permit. All requirements of Section IV are enforceable upon the issue date of the permit unless otherwise specified in the condition (e.g. some SO<sub>2</sub> and NO<sub>x</sub> requirements). [Comment last updated on 1/26/2004]
11. Comment on an item originating in this permit regarding Boiler Unit #1 (EU #1)  
Excess Emission Reports Used for Prompt Permit Deviation Reporting: Provision I.S.2.c requires prompt reporting of all permit deviations and prompt is defined as 14 days. The boiler stacks have been equipped with highly reliable Acid Rain CEM systems required by Part 75. These systems include data handling systems that record and store data for very frequent intervals than can be used for determining excess emissions as defined in Part 60. Because of the reliability and frequency that data is collected, deviation reports at 14 day intervals would be burdensome to analyze. Utah DAQ currently employs electronic reporting for CEM sources and automated analysis software to determine periods of noncompliance. These reports are received quarterly. More frequent deviation reporting for emissions addressed by excess emission reports would not enhance environmental protection. Therefore, prompt is considered to be the date when Part 60 excess emission reports (EER) are required for units and pollutants included in the EERs. As noted in the condition, reporting of "unavoidable breakdowns" shall be as described in R307-107 and not delayed until the quarterly reports. [Comment last updated on 4/30/2004]
12. Comment on an item originating in this permit regarding Boiler Unit #1 (EU #1)  
Monitoring for Particulate Matter (PM): Opacity was selected as the performance

indicator to provide a reasonable assurance of compliance with the PM emission limitation for CAM. An excursion is defined as the opacity measurements in excess of 25% as measured by COM. The PM emissions at 25% opacity will be equivalent to an emission rate of 0.0311 lb/mmBTU (less than 35% of the emission limit for PM). This excursion level is considered conservative given the fact of the wide margin of compliance (the stack test results conducted from 1998 through 2003 ranged from 0.007 through 0.020 lb/mmBTU). The 3-hour averaging period is utilized due to the fact that three 1-hour test runs are required for a Method 5 particulate matter emissions test. Following installation of the fabric filter baghouse, the permittee is required to submit the new CAM plan within 360 days of the operation new control equipment. [Comment last updated on 3/4/2010]

13. Comment on an item originating in this permit regarding Boiler Unit #1 (EU #1)  
Part 60 Monitoring for Non-Part 60 Emission Limits: The SO<sub>2</sub> reduction of 80 percent for Unit #1 is not a Part 60 emission limit, but Part 75/Part 60 CEMs and monitoring procedures are used as periodic monitoring for this limit. Therefore, failure to adhere to the specified monitoring would be a deviation from the permit condition but would not be a violation of Part 60 requirements. [Comment last updated on 4/30/2004]
14. Comment on an item originating in this permit regarding Boiler Unit #1 (EU #1)  
Part 60, Subpart D CEM QA Procedures: CEM quality assurance procedures for Subpart D units are set forth in 40 CFR 60.13(d)(1) and are very superficial. R307-170, Continuous Emission Monitor System Program, includes QA measures that include the Part 60.13 procedures as well as several more stringent requirements. Therefore, the Part 60 Subpart D CEM QA requirements are considered subsumed by R307-170. [Comment last updated on 4/30/2004]
15. Comment on an item originating in this permit regarding Boiler Unit #1 (EU #1)  
Periodic Monitoring for Part 60, Subpart D SO<sub>2</sub> and NO<sub>x</sub> Limits: The Stationary Source Compliance Division (SSCD) of the U.S. Environmental Protection Agency issued a Memorandum, Use of Acid Rain CEMS as NSPS CEMS, on September 22, 1993. SSCD determined that since the CEMS requirements of 40 CFR Part 75 are equivalent to or more stringent than the requirements of 40 CFR Part 60, EPA can accept Acid Rain CEMS as NSPS CEMS provided that the utility demonstrates compliance with all applicable NSPS requirements. This policy was used to develop monitoring for this permit condition, however Part 60 and Part 75 requirements were compared in detail to ensure the most stringent criteria was incorporated into the permit condition. The following describes the rationale for the monitoring in this permit condition:  
Subparagraph a in the monitoring provision for these emission limits identifies the applicable procedures for demonstrating compliance according to 40 CFR Part 60D.  
Subparagraph b requires the use of a Part 75 compliant monitoring system to measure 40 CFR Part 60D regulated emissions. The Part 75 system hardware requirements are clearly more stringent and comprehensive than Part 60 CEM requirements and do not warrant detailed analysis here.  
Subparagraph c sets forth the CEM quality assurance program. The quality assurance programs did require detailed analysis to compare rule stringency. Utility industry representatives and the Division of Air Quality researched the quality assurance and quality control requirements for the CEMS by 40 CFR Part 75, Part 60 Subpart Da and D, and Part 51 Appendix P. The results can be found in UDAQ operating permit source file (1997 to 1999). In addition, there are some QA/QC criteria required only by Part 75. Therefore, quality assured data as required by Part 75 can fulfill the requirements by Part 60. However, since the monitors are being used to fulfill Part 60 requirements, the out-of-control criteria under Part 60 are applicable to the monitors. The Part 60 requirements in 40 CFR 60.13 for Subpart D units are quite superficial so the procedures in R307-170 will be used. (See Review Comment #6)

Part 60 and Part 75 have different recordkeeping requirements, but the Part 75 data system is capable of providing the necessary emissions data. All additional recordkeeping is drawn from the other applicable rules.

Part 60 Subpart Da, D and Part 75 have different reports due to different emission standards and limitations. The emission reports for Part 60 and Part 75 will not be combined, and the permittee shall prepare separate reports. [Comment last updated on 4/30/2004]

16. Comment on an item originating in this permit regarding Boiler Unit #1 (EU #1)  
Requirement for Low Range on Part 75 CEM Used for Part 60 Monitoring: Acid Rain monitors are being used to monitor compliance with Part 60 Subpart D emission limits. The equipment specification in Part 75, Appendix A, Section 2.1.1.2 requires that the monitor have a low range that is not necessary to determine compliance with the Part 60 limits. Therefore, this requirement has been exempted for the purposes of Part 60 monitoring only. The monitors must still have a low range capability for Section IV, Acid Rain compliance. [Comment last updated on 4/30/2004]
  
17. Comment on an item originating in this permit regarding Boiler Unit #2 (EU #2)  
Acid Rain Program Affected Units: Steam Generating Units #1 and #2 are affected units under the Acid Rain Program as set forth in 40 CFR Parts 72, 73, 75, 76, 77, and 78. The Acid Rain Boiler ID #'s are Boiler 1 and Boiler 2, respectively. Acid Rain requirements are contained in Section IV of the permit. All requirements of Section IV are enforceable upon the issue date of the permit unless otherwise specified in the condition (e.g. some SO<sub>2</sub> and NO<sub>x</sub> requirements). [Comment last updated on 1/26/2004]
  
18. Comment on an item originating in AO regarding Coal handling and Blending Equipments (EU #41)  
Part 60, Subpart Y Opacity Limits: The NSPS sets opacity limits of 20 percent. The Approval Order requires the source to meet an opacity limit of 5 percent for conveyor transfer and drop points; and 10 percent for screens, truck unloading hopper, and radial stacker. The AO limits are more stringent than NSPS limit. Therefore, the AO limits will supersede the NSPS limit. [Comment last updated on 10/05/2006]