



State of Utah

Department of Environmental Quality

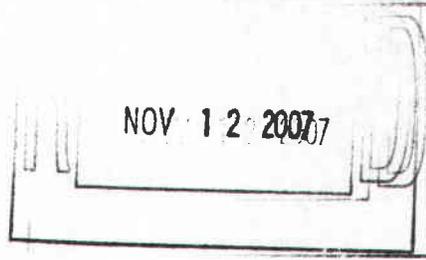
Richard W. Sprott  
Executive Director

DIVISION OF AIR QUALITY  
Cheryl Heying  
Director

JON M. HUNTSMAN, JR.  
Governor

GARY HERBERT  
Lieutenant Governor

10096



COPY

DAQO-OP0100960004-07

November 2, 2007

Mr. Michael Blakey  
P.O. Box 10  
East Carbon UT 84520

CERTIFIED MAIL

Dear Mr. Blakey

Re: Operating Permit Application for Sunnyside Cogeneration Associates: Sunnyside Cogeneration Facility

The application for an Operating Permit for the above site was received on April 28, 2006. The application was classified as a Title V renewal application, in accordance with R307-415-7c.

The changes made in this permit are as follows: CAM applies to EUs#1 and #2A; the limitation of operation hours on the emergency generator (EU #7) is deleted in accordance with AO DAQE-AN0096021-006; and opacity limit on Unit #1 applies all the time.

Please review the enclosed copy of the permit thoroughly to assure that you and all affected staff members at your organization are aware of its requirements. If you have any questions regarding this permit, please contact me at 801-536-4086 by e-mail at [jhe@utah.gov](mailto:jhe@utah.gov).

Sincerely,

Jennifer He  
Environmental Engineer  
Operating Permit Section

cc:  
Mr. Rusty Netz  
PO Box 10  
East Carbon UT 84520

- Confidential
- Shelf
- Expandable

Refer to Record No. 0007 Date 3.20.2008  
In C10070035 2008. Incoming  
For additional information



State of Utah

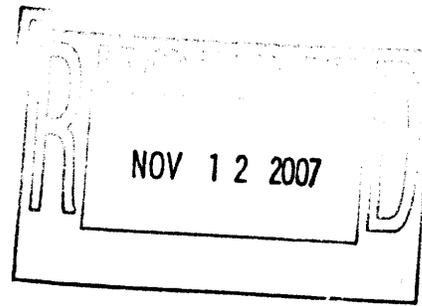
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### Title V Operating Permit

**PERMIT NUMBER:** 700030002  
**DATE OF PERMIT:** November 2, 2007  
**Date of Last Revision:** November 2, 2007

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

**Name of Permittee:**

Sunnyside Cogeneration Associates: Sunnyside  
Cogeneration Facility  
State Road 123  
PO Box 10  
Carbon County UT 84520

**Permitted Location:**

Sunnyside Cogeneration Associates: Sunnyside  
Cogeneration Facility  
State Road 123  
PO Box 10  
Carbon County UT 84520

UTM coordinates: 552984 m Easting, 4377786 m Northing  
SIC code: 4911 (Electric Services)

#### UTAH AIR QUALITY BOARD

By:

M. Cheryl Heying, Executive Secretary

Prepared By:

Jennifer He

## **ENFORCEABLE DATES AND TIMELINES**

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

- Annual Certification Due: November 1 of every calendar year that this permit is in force.
- Renewal application due: May 2, 2012
- Permit expiration date: November 2, 2012
- Definition of "prompt": written notification within 14 days.

### **ABSTRACT**

The Sunnyside Cogeneration Facility is a steam-electric generating power plant located in Sunnyside, Carbon County, Utah (approximately 25 miles southeast of Price). The plant consists of a circulating fluidized bed combustion boiler, an emergency backup diesel fire pump, diesel storage tanks, coal handling equipment, ash handling equipment, and limestone handling equipment. The boiler is fueled by coal refuse from the Sunnyside and Star Point Refuse Piles. The fly/bottom ash generated from the coal combustion is disposed of in an on site landfill and/or for beneficial use. Sunnyside is classified as a major source of air pollution with respect to PM<sub>10</sub>, sulfur dioxide (SO<sub>2</sub>), nitrogen oxide (NO<sub>x</sub>) and carbon monoxide (CO) emissions. Sunnyside is subject to 40 CFR 64 and 40 CFR 60, Subpart A, Subpart Kb (40 CFR 60.116b (a) and (b)), Subpart Db (40 CFR 60.40b), and Subpart Y (40 CFR 60.250).

## OPERATING PERMIT HISTORY

Permit/Activity	Date Issued	Recorded Changes
Title V renewal application (Project #OPP0100960004)	11/2/2007	Changes: CAM applies to EUs #1 and #2A; the limitation of operation hours on the emergency generator (EU #7) is deleted in accordance with AO DAQE-AN0096021-006; and opacity limit on Unit #1 applies all the time.
Title V administrative amendment by DAQ (Project #OPP0100960003)	5/15/2006	Changes: due to issuance of AO DAQE-AN0096020-06, dated April 18, 2006, for modifying the coal processing system at the plant.
Title V administrative amendment by DAQ (Project #OPP0100960002)	11/1/2002	Changes: due to issuance of AO DAQE-AN0096011-02 dated October 3, 2002, adding a diesel emergency generator
Title V initial application (Project #OPP0100960001)	11/1/2001	

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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 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' 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, and whether such methods or other means provide continuous or intermittent data. 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, 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.

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 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 Circulating Fluidized Bed Combustion Boiler (EU#1)**  
Rated at 700 MMBtu/hr and fueled by coal, coal refuse or alternative fuels, and fueled by diesel fuel during startup, shutdown, upset condition and flame stabilization. This boiler is equipped with a limestone injection system to the fluidized bed and a baghouse. This boiler is subject to 40 CFR 60, Subpart Db and CAM.
- II.A.3 Controlled Point Sources (EU#2)**  
Crusher, Enclosed Conveyor Transfer Points, Coal Silo Bin Vents, Coal Dust Collectors #1 (Coal Silo Unloading) and #2 (Coal Bunker Unloading) (all of above are subject to NSPS Subpart Y); and Flyash Baghouse, Hydrated Lime Storage Silo, Soda Ash Storage Silo, Ash Unloading Wet Scrubber, and Limestone Bulk Storage.
- II.A.4 Fugitive Dust Sources (EU#4)**  
Coal or Coal Refuse, Mining Operations, Ash Landfill Operations, Unpaved Roads, and Paved Haul Roads.
- II.A.5 Diesel Engines (EU#5)**  
One diesel engine, approximately 201 HP, used to power the emergency backup fire pump, and various portable I/C engines to power air compressors, generators, welders and pumps. No unit-specific applicable requirements.
- II.A.6 Fuel Oil Storage Tanks (EU#6)**  
A 50,000 gallon storage tank used to store backup diesel fuel oil for main boiler startup, shutdown, upset condition and flame stabilization (NSPS Subpart Kb), a 7,200 gallon storage tank used to store diesel fuel, and a 250 gallon storage tank used to store diesel fuel oil for the emergency diesel fire pump.
- II.A.7 Emergency Generator (EU#7)**  
A 500 kW emergency standby diesel generator, used in the event of disruption of normal electrical power and testing/maintenance.
- II.A.8 Coal Dust Collectors #1 and #2 (EU#2A)**  
Coal Silo Unloading Dust Collector and Coal Bunker Unloading Dust Collector. Both units are subject to CAM.
- II.A.9 Uncontrolled Point Source (EU#3)**  
Primary and Secondary Screens, Coal Conveying Operations (NSPS Subpart Y), Coal Receiving Hoppers (NSPS Subpart Y), Bulk Storage of Coal, and Limestone Receiving Hopper.

### **1. Requirements and Limitations**

The following emission limitations, standards, and operational limitations apply to the permitted facility as indicated:

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

**II.B.1.a**      **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. [Authority granted under R307-401-8(2) and 40 CFR 60.11(d); condition originated in DAQE-AN0096021-06]

**II.B.1.a.1**      **Monitoring:**

Records required for this permit condition will serve as monitoring.

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

Sulfur content of the diesel fuels combusted shall be no greater than 0.85 lb/MMBtu heat input. [Authority granted under R307-401-8(1)(a) [BACT]; condition originated in DAQE-AN0096021-06]

**II.B.1.b.1**      **Monitoring:**

For each delivery of oil, the permittee shall either:

(a) Determine the fuel sulfur content expressed as lb/MMBtu in accordance with the methods of the American Society for Testing Materials (ASTM) and Equation 1;

(b) Inspect the fuel sulfur content expressed as lb/MMBtu determined by the vendor using methods of the ASTM and Equation 1; or

(c) Inspect documentation provided by the vendor that indirectly demonstrates compliance with this provision.

Equation 1:

Fuel Sulfur Content, lb/MMBtu = [(Weight percent sulfur/100) x Density (lb/gal)] / [(gross heating value (Btu/gal)) x (1 MMBtu/1,000,000 Btu)]

II.B.1.b.2

**Recordkeeping:**

Fuel receipt records showing sulfur content of the delivered fuel, gross heating value, and density; or records of all sulfur content testing performed on the delivered fuel shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.1.b.3

**Reporting:**

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

II.B.1.c

**Condition:**

Power generated shall be no greater than 506,700 megawatt-hrs per rolling 12-month period. [Authority granted under R307-401-8(1)(a) [BACT]; condition originated in DAQE-AN0096021-06]

II.B.1.c.1

**Monitoring:**

The number of megawatt-hours generated shall be monitored continuously by a power meter. No later than the 15th of each month, a new 12-month total shall be calculated using data from the previous 12 calendar months.

II.B.1.c.2

**Recordkeeping:**

Records of electrical power production shall be kept on a monthly basis in accordance with Provision I.S.1 of this permit, for all periods of operation.

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.2

**Conditions on Circulating Fluidized Bed Combustion Boiler (EU #1)**

II.B.2.a

**Condition:**

Visible emissions shall be no greater than 10 percent opacity except for one 6 minute period per hour of not more than 27 percent opacity. [Authority granted under R307-401-8(1)(a) [BACT] and 40 CFR 60.43b, Subpart Db; condition originated in DAQE-AN0096021-06]

II.B.2.a.1

**Monitoring:**

The permittee shall calibrate, maintain and operate a continuous opacity monitoring (COM) system for measuring the opacity of emissions discharged to the atmosphere from the main boiler stack in accordance with the requirements of R307-170, Continuous Emission Monitoring Program and 40 CFR 60.48b.

I.B.2.a.2

**Recordkeeping:**

Results of opacity observations from the COM shall be recorded and maintained as required in R307-170, 40 CFR 60.49b, and as described in Provision I.S.1 of this permit.

II.B.2.a.3

**Reporting:**

- (a) The permittee shall submit excess emission reports required by 40 CFR 60.7(c) and (d), Reporting requirements. A data assessment report required by Appendix F, Procedure 1, Section 7 to 40 CFR Part 60 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) Deviations from permit requirements due to unavoidable breakdowns shall be reported in accordance with the provisions of R307-107.
- (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 60.7(c), and R307-170)

II.B.2.b

**Condition:**

Emissions of TSP shall be no greater than 0.025 lbs/MMBtu heat input from the boiler's stack. [Authority granted under R307-401-8(1)(a) [BACT] and 40 CFR 60.43b; condition originated in DAQE-AN0096021-06]

II.B.2.b.1

**Monitoring:**

- (a) Stack testing to show compliance with the TSP emission limitations shall be performed as specified below:
  - (1) Frequency. Emissions shall be tested every three years based on the date of the most recent stack test. The permittee must test within 12-months of the date of this permit if the most recent stack test is dated back more than 24-months prior to the date of this permit. The source may also be tested at any time if directed by the Executive Secretary.
  - (2) Notification. At least 30 days before the test, the permittee shall notify the Executive Secretary of the date, time, and place of testing and provide a copy of the test protocol. The permittee shall attend a pretest conference if determined necessary by the Executive Secretary.
  - (3) Methods. The permittee shall conduct an initial performance test as required under 40 CFR 60.8 using the following procedures and reference methods:
    - (A) Method 3B is used for gas analysis when applying Method 5.
    - (B) Method 5 shall be used to measure the concentration of particulate matter with the following modifications, in accordance with 40 CFR 60.46b:
      - (i) The sampling time for each run is at least 120 minutes and the minimum sampling volume is 1.7 dscm (60 dscf) except that smaller sampling times or volumes may be approved by the Executive Secretary when necessitated by process variables or other factors.
      - (ii) The temperature of the sample gas in the probe and filter holder is monitored and is maintained at a minimum of 160°C (320°F).
      - (iii) For determination of particulate matter emissions, the oxygen or carbon dioxide sample is obtained simultaneously with each run of Method 5 by traversing the duct at the same sampling location.
      - (iv) The emission rate expressed in pounds per million BTU heat input is determined using:
        - (I) The oxygen or carbon dioxide measurements and particulate matter measurements obtained under this section,
        - (II) The dry basis F factor, and
        - (III) The dry basis emission rate calculation procedure contained in Method 19 (appendix A of 40 CFR 60).
    - (4) Production Rate During Testing. The production rate during all compliance testing shall be no less than 90% of the maximum production achieved in the previous three (3) years.

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

(1) Measurement Approach: Opacity is measured directly by a COM installed in the exhaust stack.

(2) Indicator Range:

(A) An excursion is defined as an 8-hour fixed block average stack opacity in excess of 6%. In the future, the permittee should develop a new excursion level during each performance test using the modified method under 60.48a(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, and then adding 2.5 percent opacity to the calculated average opacity value for all of the test runs as per 60.48a(o)(2)(iii). If the new value of the opacity excursion level for all of the test runs is less than 5.0 percent, then the new opacity excursion level shall be set at 5.0 percent (8-hour fixed block average). If the new value of the opacity excursion level for all of the test runs is greater than 6.0 percent, then the new opacity excursion level shall be set at 6.0 percent (8-hour fixed block average).

(B) Excursions trigger an inspection and review of the baghouse performance as indicated by other parameters (to confirm if opacity is valid and to determine the baghouse operating deficiencies), corrective action (to lower stack opacity less than 6%), and a reporting requirement.

(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 60.49b; 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 8-hour fixed block average opacity.

**II.B.2.b.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 Db 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 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))

**II.B.2.b.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.c**

**Condition:**

Emissions of SO<sub>2</sub> shall be no greater than 0.42 lbs/MMBtu heat input per 30-day rolling average during normal operations, not including periods of startup, shutdown, maintenance/planned outage, or malfunction. [Authority granted under R307-401-8(1)(a) [BACT] and 40 CFR 60.42b; condition originated in DAQE-AN0096021-06]

**II.B.2.c.1**

**Monitoring:**

The permittee shall calibrate, maintain, and operate a continuous emission monitoring systems (CEMS) for measuring sulfur dioxide concentrations. The sulfur dioxide concentration shall be monitored in accordance with the monitoring provisions of 40 CFR 60.47b. The CEM shall be maintained and operated in accordance with R307-170.

**II.B.2.c.2**

**Recordkeeping:**

Results of SO<sub>2</sub> monitoring shall be recorded and maintained as required in 40 CFR 60.49b, R307-170 and as described in Provision I.S.1 of this permit.

**II.B.2.c.3**

**Reporting:**

(a) The permittee shall submit excess emission reports required by 40 CFR 60.7(c) and (d), Reporting requirements. A data assessment report required by Appendix F, Procedure 1, Section 7 to 40 CFR Part 60 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) Deviations from permit requirements due to unavoidable breakdowns shall be reported in accordance with the provisions of R307-107.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 60.7(c), and R307-170)

**II.B.2.d**

**Condition:**

Emissions of SO<sub>2</sub> shall be no greater than 462 lbs/operating hour based on a 3-hour block average, during normal operations not including periods of startup, shutdown, maintenance/planned outage, or malfunction. [Authority granted under R307-401-8(1)(a) [BACT]; condition originated in DAQE-AN0096021-06]

**II.B.2.d.1**

**Monitoring:**

The permittee shall calibrate, maintain, and operate a continuous emission monitoring systems (CEMS) for measuring sulfur dioxide concentrations. The CEM shall be maintained and operated in accordance with R307-170.

To determine SO<sub>2</sub> mass emission rates (lbs/hr), the permittee shall either install, maintain, calibrate, and operate a continuous stack flow monitoring system or, alternatively, estimate the stack gas flow rate in accordance with the Approved SO<sub>2</sub> Mass Emission Rate Monitoring Plan described in Appendix C of DAQE-AN0096021-06. The entire mass emission rate monitoring system shall meet a 15% Relative Accuracy Test Audit (RATA) performance requirement in accordance with R307-170.

**II.B.2.d.2**

**Recordkeeping:**

Results of SO<sub>2</sub> monitoring shall be recorded and maintained as required in R307-170, and as described in Provision I.S.1 of this permit.

II.B.2.d.3

**Reporting:**

(a) The permittee shall submit excess emission reports required by 40 CFR 60.7(c) and (d), Reporting requirements. A data assessment report required by Appendix F, Procedure 1, Section 7 to 40 CFR Part 60 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) Deviations from permit requirements due to unavoidable breakdowns shall be reported in accordance with the provisions of R307-107.

(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 60.7(c), and R307-170)

II.B.2.e

**Condition:**

If the main boiler is fired on fuel classified as coal refuse, the permittee shall limit emissions of SO<sub>2</sub> from the main boiler to no more than 20 percent of the potential SO<sub>2</sub> emission rate (80% reduction rate) and no more than 1.2 lb SO<sub>2</sub> / MMBTU heat input, in accordance with 40 CFR 60.42b(b). SO<sub>2</sub> emissions shall be determined as the arithmetic average of all hourly emission rates for the 30 successive boiler operating days including periods of startup, shutdown or malfunction.

If the main boiler is fired on fuel not classified as coal refuse, the permittee shall limit emissions of SO<sub>2</sub> from the main boiler to 10 percent of the potential SO<sub>2</sub> emission rate (90% reduction rate) and no more than the emission limit (Es) determined according to the following formula, in accordance with 40 CFR 60.42b(a):

$$Es = (Ka Ha + Kb Hb) / (Ha + Hb)$$

where:

Es is the sulfur dioxide emission limit in lb SO<sub>2</sub> / MMBTU heat input

Ka is a constant for coal combustion equal to 1.2 lb SO<sub>2</sub> / MMBTU

Kb is a constant for oil combustion equal to 0.8 lb SO<sub>2</sub> / MMBTU

Ha is the heat input from the combustion of coal in MMBTU

Hb is the heat input from the combustion of oil in MMBTU

SO<sub>2</sub> emissions rates and percent of the potential SO<sub>2</sub> emissions emission rate shall be calculated in accordance with 40 CFR 60.45b(c) and shall be determined as the arithmetic average of all hourly emission rates for the 30 successive boiler operating days including periods of startup, shutdown or malfunction. [Authority granted under 40 CFR 60.45b (g) and (h); condition originated in 40 CFR 60.42b (g) and (h)]

II.B.2.e.1

**Monitoring:**

The permittee shall calibrate, maintain, and operate a continuous emission monitoring systems (CEMS) for measuring sulfur dioxide concentrations. The sulfur dioxide concentration shall be monitored in accordance with the monitoring provisions of 40 CFR 60.47b. The CEM shall be maintained and operated in accordance with R307-170.

II.B.2.e.2

**Recordkeeping:**

Results of SO<sub>2</sub> monitoring shall be recorded and maintained as required in 40 CFR 60.49b, R307-170 and as described in Provision I.S.1 of this permit.

II.B.2.e.3

**Reporting:**

- (a) The permittee shall submit excess emission reports required by 40 CFR 60.7(c) and (d), Reporting requirements. A data assessment report required by Appendix F, Procedure 1, Section 7 to 40 CFR Part 60 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) Deviations from permit requirements due to unavoidable breakdowns shall be reported in accordance with the provisions of R307-107.
- (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 60.7(c), and R307-170)

II.B.2.f

**Condition:**

Emissions of NO<sub>x</sub> shall be no greater than 0.25 lbs/MMBtu heat input per 30-day rolling average during normal boiler operation not including periods of startup, shutdown, maintenance/planned outage, or malfunction. [Authority granted under R307-401-8(1)(a) [BACT] and 40 CFR 60.44b, Subpart Db; condition originated in DAQE-AN0096021-06]

II.B.2.f.1

**Monitoring:**

The permittee shall calibrate, maintain and operate a continuous monitoring system for measuring the emissions of nitrogen oxide (NO<sub>x</sub>) discharged to the atmosphere in accordance with the monitoring provisions of 40 CFR 60.46b. The CEM shall be maintained and operated in accordance with R307-170.

II.B.2.f.2

**Recordkeeping:**

Results of NO<sub>x</sub> monitoring shall be recorded and maintained as required in R307-170, 40 CFR 60.49b, and as described in Provision I.S.1 of this permit.

II.B.2.f.3

**Reporting:**

- (a) The permittee shall submit excess emission reports required by 40 CFR 60.7(c) and (d), Reporting requirements. A data assessment report required by Appendix F, Procedure 1, Section 7 to 40 CFR Part 60 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) Deviations from permit requirements due to unavoidable breakdowns shall be reported in accordance with the provisions of R307-107.
- (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 60.7(c), and R307-170)

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

Emissions of NO<sub>x</sub> shall be no greater than 0.6 lbs/MMBtu heat input per 30-day rolling average, including periods of startup, shutdown, maintenance/planned outage, or malfunction. [Authority granted under R307-401-8(1)(a) [BACT] and 40 CFR 60.42b, Subpart Db; condition originated in DAQE-AN0096021-06]

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

The permittee shall calibrate, maintain and operate a continuous monitoring system for measuring the emissions of nitrogen oxide (NO<sub>x</sub>) discharged to the atmosphere in accordance with the monitoring provisions of 40 CFR 60.46b. The CEM shall be maintained and operated in accordance with R307-170.

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

Results of NO<sub>x</sub> monitoring shall be recorded and maintained as required in R307-170, 40 CFR 60.49b, and as described in Provision I.S.1 of this permit.

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

- (a) The permittee shall submit excess emission reports required by 40 CFR 60.7(c) and (d), Reporting requirements. A data assessment report required by Appendix F, Procedure 1, Section 7 to 40 CFR Part 60 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) Deviations from permit requirements due to unavoidable breakdowns shall be reported in accordance with the provisions of R307-107.
- (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 60.7(c), and R307-170)

**II.B.2.h Condition:**

Emissions of CO shall be no greater than 0.085 lbs/MMBtu heat input. [Authority granted under R307-401-8(1)(a) [BACT]; condition originated in DAQE-AN0096021-06]

II.B.2.h.1

**Monitoring:**

Stack testing shall be performed as specified here:

- (a) Frequency. Emissions shall be tested at least once every 12 months, based on the date of the most recent stack test.
- (b) Notification. At least 30 days before the test, the source shall notify the Executive Secretary of the date, time, and place of testing and provide a copy of the test protocol. The source shall attend a pretest conference if determined necessary by the Executive Secretary.
- (c) Sample Point. The emission sample point shall conform to the requirements of 40 CFR 60, Appendix A, Method 1. In addition, Occupational Safety and Health Administration (OSHA) approved access shall be provided to the test location.
- (d) Methods.
  - (1) 40 CFR 60, Appendix A, Method 10 or 10 b shall be used to determine CO emissions;
  - (2) The emission rate expressed in pounds per million BTU heat input is determined using:
    - (i) the oxygen or carbon dioxide measurements obtained during the source test performed to determine CO emissions.
    - (ii) The dry basis F factor, and
    - (iii) The dry basis emission rate calculation procedure contained in Method 19 (appendix A of 40 CFR 60)
- (e) Production Rate During Testing. The operational rate during all compliance testing shall be no less than 90% of the maximum rate achieved in the previous three (3) years.

II.B.2.h.2

**Recordkeeping:**

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

**II.B.2.i Condition:**

The permittee must obtain approval from the Executive Secretary prior to using a new source of alternative fuel as an additive to the coal or coal refuse. To obtain approval from the Executive Secretary, the permittee shall submit a test analysis of the proposed alternative fuel.

The average quantity of alternative fuel from an approved source that can be blended with the coal or coal refuse shall not exceed 10 percent, by weight, of the total fuel burned during a calendar day. The permittee may increase the use of alternative fuels from an approved alternative fuel source from 10 percent up to 25 percent upon approval by the Executive Secretary. Both the approval of a specific source of alternative fuel and the approval of an increase in the amount of approved alternative fuels to be blended with the coal or coal refuse are considered off-permit changes subject to the requirements of R307-415-7d(2).

The blended fuel shall be classified as coal refuse if the blended fuel, as fired, has an ash content of 50 percent by weight or higher, on a dry basis, and has a heating value of 6000 BTU/lb or less, on a dry basis, and if all the fuels in the blend are a byproduct of coal mining or coal cleaning operations. Fuel blends that do not meet all of these requirements are not classified as coal refuse. [Authority granted under 40 CFR 60.41b and R307-401-8(1)(a) [BACT]; condition originated in DAQE-AN0096021-06]

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

For each calendar day that alternative fuel is used, the permittee shall record the total weight of coal or coal refuse combusted and the total weight, type and origin of alternative fuel used, including the daily weight percentage of alternative fuel blended with the coal or coal refuse.

Regardless of the type of fuel combusted, a composite sample of the boiler fuel, as fired, shall be analyzed daily for ash content and heating value. Ash content and heating value shall be determined as the arithmetic average of all daily composite fuel analyses for 90 successive boiler operating days. These values shall be determined within 5 days.

**II.B.2.i.2 Recordkeeping:**

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

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

Prior to using a new source of alternative fuel or increasing the blending limit for alternative fuel from an approved source, the permittee shall submit a test analysis of the alternative fuel. The analysis report shall include, at a minimum, the ASTM fuel proximate and ultimate analyses as well as the benzene and Poly Aromatic Hydrocarbon (PAH) analyses.

**II.B.2.j Condition:**

The permittee shall maintain, calibrate, and operate a continuous monitoring system for measuring either oxygen (O<sub>2</sub>) or carbon dioxide (CO<sub>2</sub>) concentrations in the main boiler stack. The monitoring system shall comply with the requirements of 40 CFR 60, Appendix B, Specification 3. [Authority granted under 40 CFR 60.47b, Subpart Db; condition originated in DAQE-AN0096021-06]

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

Records required for this permit condition will serve as monitoring.

II.B.2.j.2

**Recordkeeping:**

The permittee shall record the output of the system along with required calibration and maintenance records. All records shall be maintained as described in Provision I.S.1 of this permit.

II.B.2.j.3

**Reporting:**

(a) The permittee shall submit excess emission reports required by 40 CFR 60.7(c) and (d), Reporting requirements. A data assessment report required by Appendix F, Procedure 1, Section 7 to 40 CFR Part 60 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) Deviations from permit requirements due to unavoidable breakdowns shall be reported in accordance with the provisions of R307-107.

(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 60.7(c), and R307-170)

II.B.2.k

**Condition:**

In case of malfunction or maintenance of the sulfur dioxide control system, the permittee may combust either natural gas or very low sulfur diesel fuel oil (diesel fuel oil that contains no more than 0.5 weight percent of sulfur) while the sulfur dioxide control system is not being operated. [Authority granted under 40 CFR 60.42b (i); condition originated in 40 CFR 60.42b)]

II.B.2.k.1

**Monitoring:**

The permittee shall maintain a log of fuel usage describing the time and date of each fuel switch. When diesel fuel oil is combusted during periods of malfunction or maintenance of the sulfur dioxide control systems, the permittee shall maintain the fuel receipt records described in 40 CFR 60.49b to demonstrate that the diesel fuel oil used meets the definition of very low sulfur diesel fuel oil (diesel fuel oil that contains no more than 0.5 weight percent of sulfur).

II.B.2.k.2

**Recordkeeping:**

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

II.B.2.k.3

**Reporting:**

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

II.B.3

**Conditions on Controlled Point Sources (EU #2)**

I ) a

**Condition:**

Visible emissions shall be no greater than 7 percent opacity. [Authority granted under R307-401-8(1)(a) [BACT] and 40 CFR 60 Subpart Y; condition originated in DAQE-AN0096021-06]

II.B.3.a.1

**Monitoring:**

An opacity survey 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.3.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 should 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.3.a.3

**Reporting:**

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

II.B.4

**Conditions on Fugitive Dust Sources (EU#4)**

II.B.4.a

**Condition:**

The permittee shall operate in accordance with the most current fugitive dust control plan approved by the Executive Secretary for the control of all dust sources associated with the plant and Ash Landfill. [Authority granted under R307-201-3 and R307-401-8(1)(a) [BACT]; condition originated in DAQE-AN0096021-06]

II.B.4.a.1

**Monitoring:**

The permittee shall implement the techniques specified in the most recently approved version of the fugitive dust control plan. The plan shall contain sufficient control measures to prevent an increase in PM<sub>10</sub> emissions above those modeled for the most recently approved AO. The parameters and assumptions used in the most recent air quality modeling analysis shall not be changed if such change would result in an increase in PM<sub>10</sub> emissions. The limitations and conditions in the current fugitive dust control plan shall not be changed without prior approval in accordance with R307-401.

II.B.4.a.2

**Recordkeeping:**

Records required by the most recently approved fugitive dust control plan shall be maintained in accordance with the plan and in accordance with Provision I.S.1. of this permit.

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.4.b Condition:**

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-201-3 and R307-401-8(1)(a) [BACT]; condition originated in DAQE-AN0096021-06]

**II.B.4.b.1 Monitoring:**

In lieu of opacity monitoring, adherence to the most recently approved version of the fugitive dust control plan shall be monitored to demonstrate that appropriate measures are being implemented to control fugitive dust.

**II.B.4.b.2 Recordkeeping:**

Records required by the most recently approved fugitive dust control plan shall be maintained in accordance with the plan and in accordance with Provision I.S.1.of this permit.

**II.B.4.b.3 Reporting:**

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

**II.B.5 Conditions on Fuel Oil Storage Tanks (EU#6)**

**II.B.5.a Condition:**

The permittee shall keep readily accessible records showing the dimensions of the 50,000 gallon storage vessel and an analysis showing the capacity of the storage vessel. These records shall be kept for the life of the source. [Authority granted under 40 CFR 60.112(b); condition originated in 40 CFR 60.116 (b)]

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

Records required for this permit condition will serve as monitoring.

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

A copy of the required records shall be maintained in accordance with Provision I.S.1.of this permit and made available to the Executive Secretary upon request.

**II.B.5.a.3 Reporting:**

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

**II.B.6 Conditions on Emergency Generator (EU #7)**

**II.B.6.a Condition:**

Visible emission shall be no greater than 20 percent opacity except for operation not exceeding 3 minutes in any hour. [Authority granted under R307-201-3; condition originated in R307-201-3].

II.B.6.a.1

**Monitoring:**

Opacity observations of emissions shall be conducted annually when the affected unit is operated, in accordance with 40 CFR 60, Appendix A, Method 9.

II.B.6.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.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 Dust Collectors #1 and #2 (EU #2A)**

II.B.7.a

**Condition:**

Visible emissions shall be no greater than 7 percent opacity from each affected unit. [Authority granted under R307-401-8(1)(a) [BACT] and 40 CFR 60 Subpart Y; condition originated in DAQE-AN0096021-06]

II.B.7.a.1

**Monitoring:**

(a). An opacity survey 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.

(b). Bag leak detectors shall be used as an indicator to provide a reasonable assurance of compliance with the limitation as specified below:

(1) Measurement Approach: Bag leak detectors are used to detect any signals created by any changes in particulate concentration.

(2) Indicator Range: The bag leak detectors are calibrated (zeroed) to a clean exhaust and will alarm and trip the coal handling system when any particulates are detected in the exhaust stream. An excursion is defined as when the alarm is initiated. Excursions trigger an inspection and review of the baghouse performance as indicated by other parameters (to determine the baghouse operating deficiencies), corrective action, and a reporting requirement.

(3) Performance Criteria:

(A). Data Representativeness: Transducer signal measured by the bag leak detectors shall provide a direct indicator of baghouse performance. Each bag leak detector shall be installed in accordance with manufacturer's specifications.

(B). QA/QC Practices and Criteria: Each bag leak detector shall be operated, calibrated, and maintained in accordance with manufacturer's specifications.

(C). Monitoring Frequency: Each bag leak detector shall be operated continuously.

(D). Data Collection Procedure: Bag leak detectors alarms and trips shall be recorded by plant personnel. Any maintenance activities performed shall be documented.

.a.2

**Recordkeeping:**

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

(a) The permittee shall maintain a log of the visual opacity survey(s) 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.

(b) 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.7.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.8

**Conditions on Uncontrolled Point Sources (EU#3)**

II.B.8.a

**Condition:**

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-8(1)(a) [BACT] and 40 CFR 60 Subpart Y; condition originated in DAQE-AN0096021-06]

II.B.8.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 condensed water vapor 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.

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 should 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.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.**

Not applicable to this source.

**SECTION III: PERMIT SHIELD**

III.A

**A permit shield was not granted for any specific requirements.**

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

IV.A

**This source is not subject to Title IV. This section is not applicable.**

## REVIEWER COMMENTS

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

---

**Incorporates AO DAQE-AN0096021-06 dated November 9, 2009**

---

**1. Comment on an item originating in this permit regarding Circulating Fluidized Bed Combustion Boiler(EU#1)**

Both the ash content and the heating value shall be calculated on a rolling 90 day average with a 5-day data lag: A 5-day lag has been incorporated into the rolling 90 day averaging process to account for turn around time associated with offsite coal analysis. The SO<sub>2</sub> reduction level will continue to be established on a daily basis using the most current data available to the permittee at that time. [Last updated October 22, 2007]

**2. Comment on an item originating in this permit regarding Circulating Fluidized Bed Combustion Boiler(EU#1)**

CAM Plan: This emission unit is subject to CAM in the renewal permit. The baghouse is the pollution control equipment for TSP. CAM correlation stack testing for TSP emissions was performed on Boiler#1 during December 2006. The correlation test results indicated a correlation of opacities to TSP emission rates. Therefore, opacity is selected as the performance indicator of the baghouse to provide a reasonable assurance of compliance with the TSP emission limitation for CAM.

The correlation test results demonstrated that an opacity of 3.2% corresponds to the stack TSP emission limit. The measurement errors associated with low-level opacity measuring were evaluated and uncertainties contributed by the instrument, particle size, particle shape, and particle shape were calculated. The combined uncertainty was estimated to be 3.2% opacity. The opacity corresponding to the stack TSP emission limit was justified to 6.4% after adding the 3.2% of combined uncertainty. The 6.0% of opacity (8-hour fixed block average) is chosen as the excursion level to provide a reasonable assurance of compliance margin.

In the future, the permittee is required to develop a new excursion level during each performance test (the next one is due in 2008) using the modified method under 60.48a(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, and then adding 2.5 percent opacity to the calculated average opacity value for all of the test runs as per 60.48a(o)(2)(iii). If the new value of the opacity excursion level for all of the test runs is less than 5.0 percent, then the new opacity excursion level shall be set at 5.0 percent (8-hour fixed block average). If the new value of the opacity excursion level for all of the test runs is greater than 6.0 percent, then the new opacity excursion level shall be set at 6.0 percent (8-hour fixed block average).

The calculated post control potential emission for TSP is 92.5 tons per year for this unit. The 8-hour fixed block average opacity will provide 3 data points everyday which will meet the monitoring frequency requirement under 40 CFR 64 for non large PSEUs (pollutant specific emissions unit). The stack testing in conjunction with the opacity monitoring in CAM meets the monitoring requirements in the renewal permit. [Last updated October 22, 2007]

- 3. Comment on an item originating in DAQE-AN0096020-06, condition 12 regarding Circulating Fluidized Bed Combustion Boiler(EU#1)**  
The permittee may increase the average quantity of alternative fuels used up to 25 percent by weight upon approval by the Executive Secretary: Approval of increased alternative fuel blending limits will be contingent upon the determination that a higher percent of alternative fuels in the blend will not result in increased emissions of air pollutants. Approval is only valid for a specific batch of alternative fuels and must be re-established for every new source of alternative fuels. Consequently, these case-by-case determinations will be conducted as off-permit actions not requiring modifications to the operating permit. [Last updated October 22, 2007]
- 4. Comment on an item originating in 40 CFR 60, Subpart Db regarding Circulating Fluidized Bed Combustion Boiler(EU#1)**  
The permittee shall not cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. This applicable requirement is subsumed by a more stringent opacity limit of 10 percent, except for one 6-minute period per hour of not more than 27 percent opacity which was established through the application of BACT. [Last updated October 22, 2007]
- 5. Comment on an item originating in 40 CFR 60, Subpart Y regarding Circulating Fluidized Bed Combustion Boiler(EU#1)**  
The permittee shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal, gases which exhibit 20 percent opacity or greater: This applicable requirement is subsumed by more stringent opacity limits of 7% for controlled emission points and 10 % for uncontrolled emission points which were established through the application of BACT. [Last updated October 22, 2007]
- 6. Comment on an item originating in 40 CFR 60, Subpart Db regarding Circulating Fluidized Bed Combustion Boiler(EU#1)**  
The permittee shall not emit any gases that contain particulate matter in excess of 0.05 lb TSP/MMBtu heat input: This applicable requirement is subsumed by a more stringent emission limit of 0.025 lb TSP/ MMBTU which was established through the application of BACT. [Last updated October 22, 2007]
- 7. Comment on an item originating in this permit regarding Circulating Fluidized Bed Combustion Boiler(EU#1)**  
Utah DAQ has determined that the 0.025lb particulates per MMBtu limit was set for TSP and not for PM<sub>10</sub> in the letter DAQE-GN0096012A-02, dated December 3, 2002. This decision was based on the fact that this limit was set before the PM<sub>10</sub> standards were adopted by Utah DAQ. Therefore, the limit of TSP is used in this permit. [Last updated October 22, 2007]
- 8. Comment on an item originating in this permit regarding Coal Dust Collectors #1 and #2 (EU#2A)**  
CAM Plan: This emission unit is subject to CAM in the renewal permit. The baghouse is the pollution control equipment for TSP. Bag leak detectors are selected as the performance indicator of the baghouse to provide a reasonable assurance of compliance with the opacity limitation for CAM. Bag leak detectors have a continuous digital signal that corresponds directly to the relative particulate emission level. The bag leak detectors are calibrated (zeroed) to a clean exhaust stream and will alarm and trip the coal handling system when any particulates are detected in the exhaust stream. [Last updated October 22, 2007]



State of Utah

Department of  
Environmental Quality

Dianne R. Nielson, Ph.D.  
Executive Director

DIVISION OF WATER QUALITY  
Walter L. Baker, P.E.  
Director

JON M. HUNTSMAN, JR.  
Governor

GARY HERBERT  
Lieutenant Governor

June 1, 2007

**CERTIFIED MAIL**  
**(Return Receipt requested)**

Mr. Michael Blakey, Plant Manager  
Sunnyside Cogeneration Associates  
P.O. Box 10  
East Carbon, Utah 84520

Subject: Renewal of UPDES Permit No. UT0024759.

Dear Mr. Blakey:

Enclosed is a signed copy of Utah Pollutant Discharge Elimination System (UPDES) Renewal Permit No. UT0024759 for your facility. The conditions and requirements of the permit are effective as of August 1, 2007, subject to the right to challenge this decision in accordance with the provisions of *Utah Administrative Code R317-9*. Copies of EPA form 3320-1, Discharge Monitoring Reports (DMR) forms, for reporting and self-monitoring requirements as specified in the permit, are available from our office upon request.

A fee schedule was included in the Utah Department of Environmental Quality Budget appropriation request at the direction of the Legislature and in accordance with *Utah Code annotated 19-1-201*. The fee schedule, as approved by the legislature, includes a prescribed fee for specific Industrial Categories.

The prescribed fee for your UPDES Renewal Permit is \$3,600.00. Therefore, please remit \$3,600.00 within 30 days from receipt of this letter to:

Department of Environmental Quality  
Division of Water Quality  
Attn: Nicole Carrell  
P.O. Box 144870  
Salt Lake City, UT 84114-4870

A separate invoice is included herein. Please be sure to include the invoice number with you remittance.



Also, as the State agency charged with the administration of issuing UPDES permits, we are continuously looking for ways to improve our quality of service to you. In an effort to improve the State UPDES permitting process, we are asking for your input. Since our customer permittee base is limited, your input is important to us. Please take a few moments to complete the enclosed questionnaire and return it in the postage paid, self-addressed return envelope. The results will be used to improve our quality and responsiveness to our customers and give us feed back on customer satisfaction. We will address any issues you identify on an ongoing basis.

If you have any questions with regards to this matter, please contact Jeff Studenka of this office at (801) 538-6779 or by e-mail at [jstudenka@utah.gov](mailto:jstudenka@utah.gov).

Sincerely,



Mike Herkimer, Manager  
UPDES Permits IES Section

MH:JS:st

Enclosure

cc (w/ encl.):            Qian Zhang, P.E., EPA Region VIII  
                                  Claron Bjork, SE District Health Department  
                                  Dave Ariotti, SE District Engineer  
                                  Pam Grubaugh-Littig, Division of Oil Gas & Mines

STATE OF UTAH  
DIVISION OF WATER QUALITY  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
SALT LAKE CITY, UTAH

AUTHORIZATION TO DISCHARGE UNDER THE  
UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM  
(UPDES)

In compliance with provisions of the *Utah Water Quality Act, Title 19, Chapter 5, Utah Code Annotated ("UCA") 1953, as amended (the "Act")*,

**SUNNYSIDE COGENERATION ASSOCIATES**

is hereby authorized to discharge from its facility located at Sunnyside, Utah, with the outfalls located as indicated in this permit, to receiving waters named

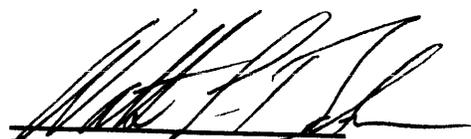
Icelander Creek and Grassy Trail Creek

in accordance with discharge points, effluent limitations, monitoring requirements and other conditions set forth herein.

This permit shall become effective on August 1, 2007.

This permit and the authorization to discharge shall expire at midnight, July 31, 2012.

Signed this 8<sup>th</sup> day of June 2007



Walter L. Baker, P.E.  
Executive Secretary  
Utah Water Quality Board

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# I. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

## A. Definitions

1. The "30-day (and monthly) average" is the arithmetic average of all samples collected during a consecutive 30-day period or calendar month, whichever is applicable. The calendar month shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms.
2. The "7-day (and weekly) average" is the arithmetic average of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The 7-day and weekly averages are applicable only to those effluent characteristics for which there are 7-day average effluent limitations. The calendar week which begins on Sunday and ends on Saturday, shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for that calendar week shall be included in the data for the month that contains the Saturday.
3. "Daily Maximum" ("Daily Max.") is the maximum value allowable in any single sample or instantaneous measurement.
4. "Composite samples" shall be flow proportioned. The composite sample shall, as a minimum, contain at least four (4) samples collected over the composite sample period. Unless otherwise specified, the time between the collection of the first sample and the last sample shall not be less than six (6) hours nor more than 24 hours. Acceptable methods for preparation of composite samples are as follows:
  - a. Constant time interval between samples, sample volume proportional to flow rate at time of sampling;
  - b. Constant time interval between samples, sample volume proportional to total flow (volume) since last sample. For the first sample, the flow rate at the time the sample was collected may be used;
  - c. Constant sample volume, time interval between samples proportional to flow (i.e., sample taken every "X" gallons of flow); and,
  - d. Continuous collection of sample, with sample collection rate proportional to flow rate.
5. A "grab" sample, for monitoring requirements, is defined as a single "dip and take" sample collected at a representative point in the discharge stream.
6. An "instantaneous" measurement, for monitoring requirements, is defined as a single reading, observation, or measurement.
7. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

8. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.
9. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
10. "Executive Secretary" means Executive Secretary of the Utah Water Quality Board.
11. "EPA" means the United States Environmental Protection Agency.
12. "Act" means the "*Utah Water Quality Act*".
13. "Best Management Practices" ("*BMPs*") means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. *BMPs* also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.
14. "*CWA*" means *The Federal Water Pollution Control Act*, as amended, by *The Clean Water Act of 1987*.
15. "Coal pile runoff" means the rainfall runoff from or through any coal storage pile.
16. "Point Source" means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agriculture storm water runoff.
17. "Runoff coefficient" means the fraction of total rainfall that will appear at conveyance as runoff.
18. "Significant materials" includes, but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under *Section 101(14) of CERCLA*; any chemical the facility is required to report pursuant to *EPCRA Section 313*; fertilizers; pesticides; and waste products such as ashes, slag and sludge that have the potential to be released with storm water discharges.
19. "Significant spills" includes, but is not limited to: releases of oil or hazardous substances in excess of reportable quantities under *Section 311 of the Clean Water Act* (see *40 CFR 110.10* and *40 CFR 117.21*) or *Section 102 of CERCLA* (see *40 CFR 302.4*).
20. "Storm water" means storm water runoff, snow melt runoff, and surface runoff and drainage.
21. "Landfill" means an area of land or an excavation in which wastes are placed for permanent disposal, and which is not a land application unit, surface impoundment, injection well, or waste pile.
22. "Waste pile" means any noncontainerized accumulation of solid, nonflowing waste that is used for treatment or storage.

23. "Illicit discharge" means any discharge to a municipal separate storm sewer that is not composed entirely of storm water except discharges pursuant to a *UPDES* permit (other than the *UPDES* permit for discharges from the municipal separate storm sewer) and discharges from fire fighting activities, fire hydrant flushings, potable water sources including waterline flushings, uncontaminated ground water (including dewatering ground water infiltration), foundation or footing drains where flows are not contaminated with process materials such as solvents, springs, riparian habitats, wetlands, irrigation water, exterior building washdown where there are no chemical or abrasive additives, pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred and where detergents are not used, and air conditioning condensate.
24. "Section 313 water priority chemical" means a chemical or chemical categories which:
- a. are listed at *40 CFR 372.65* pursuant to *Section 313* of *Title III* of the *Emergency Planning and Community Right-to-Know Act (EPCRA)* (also known as *Title III* of the *Superfund Amendments and Reauthorization Act (SARA)* of 1986);
  - b. are present at or above threshold levels at a facility subject to *EPCRA, Section 313* reporting requirements, and
  - c. meet at least one of the following criteria:
    - (1) are listed in *Appendix D* of *40 CFR 122* on either *Table II* (organic priority pollutants), *Table III* (certain metals, cyanides, and phenols) or *Table IV* (certain toxic pollutants and hazardous substances);
    - (2) are listed as a hazardous substance pursuant to *Section 311(b)(2)(A)* of the *CWA* at *40 CFR 116.4*; or
    - (3) are pollutants for which EPA has published acute or chronic toxicity criteria.
23. "10-year, 24-hour precipitation event" means the maximum 24-hour precipitation event with a probable reoccurrence interval of once in 10 years. This information is available in *Weather Bureau Technical Paper No. 40*, May 1961 and *NOAA Atlas 2*, 1973 for the 11 Western States, and may be obtained from the National Climatic Center of the Environmental Data Service, National Oceanic and Atmospheric Administration, U.S. Department of Commerce.

B. Description of Discharge Points.

The authorization to discharge provided under this permit is limited to those outfalls specifically designated below as discharge locations. Discharges at any location not authorized under a *UPDES* permit is a violation of the *Act* and may be subject to penalties under the *Act*. Knowingly discharging from an unauthorized location or failing to report an unauthorized discharge may be subject to criminal penalties as provided under the *Act*.

<u>Outfall Number</u>	<u>Location of Discharge Points</u>
002	Water Supply Pipeline, Latitude 39° 35' 50", Longitude 110° 22' 42". Water from the deep water well is conveyed via the water supply pipeline discharged into Grassy Trail Creek.

- 003 Water Supply Pipeline, Latitude 39° 32' 58", Longitude 110° 23' 32". Outfall for pipe line just before entrance to clean water pond. Outfall is to Grassy Trail Creek.
- 007 Rail Cut Pond, Latitude 39° 32' 52", Longitude 110° 23' 48". Surface runoff discharged from sedimentation pond to Icelander Creek.
- 008 Old Coarse Refuse Pond, Latitude 39° 32' 20", Longitude 110° 23' 03". Surface runoff discharged from sedimentation pond to Iceland Creek.
- 009 Pasture Pond, Latitude 39° 32' 36", Longitude 110° 23' 29". Surface runoff discharged from sedimentation pond to Icelander Creek.
- 012 Coarse Refuse Toe Pond, Latitude 39° 32' 28", Longitude 110° 23' 58". Surface runoff discharged from sedimentation pond to Icelander Creek.
- 013 Facility sedimentation Pond, Latitude 39° 32' 46", Longitude 110° 23' 49". Sedimentation pond to contain runoff from the Cogeneration facility. Discharge to Icelander Creek.
- 014 Coal Pile Sedimentation Pond, Latitude 39° 32' 45", Longitude 110° 23' 36". Sedimentation Pond to contain runoff from the coal pile. Discharge to Icelander Creek.
- 016 Borrow Area Pond, Latitude 39° 32' 25", Longitude 110° 23' 45". Sedimentation pond containing runoff from soil borrow area. Discharge to Icelander Creek.
- 017 Phase II Landfill Sedimentation Pond, Latitude 39° 32' 50", Longitude 110° 23' 45". Sedimentation pond to contain runoff from the Phase II landfill area. Discharge is to Icelander Creek.

C. Narrative Standard

It shall be unlawful, and a violation of this permit, for the permittee to discharge or place any waste or other substance in such a way as will be or may become offensive such as unnatural deposits, floating debris, oil, scum or other nuisances such as color, odor or taste, or cause conditions which produce undesirable aquatic life or which produce objectionable tastes in edible aquatic organisms; or result in concentrations or combinations of substances which produce undesirable physiological responses in desirable resident fish, or other desirable aquatic life, or undesirable human health effects, as determined by bioassay or other tests performed in accordance with standard procedures.

D. Specific Limitations and Selfmonitoring Requirements

1. Effective immediately and lasting the duration of this permit, the permittee is authorized to discharge from Outfalls 002, 003, 007, 008, 009, 012, and 016. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristics	Discharge Limitations <sup>a/</sup>			Monitoring Requirements	
	Average 30-Day Report	7-Day	Daily Maximum	Measurement Frequency	Sample Type
Flow, MGD	NA	NA	10	Monthly	Measured
Oil & Grease, mg/L <sup>b/</sup>	NA	NA	10	Monthly/Sheen	Grab/Visual
Total Suspended Solids, mg/L <sup>c/</sup>	25	35	70	Monthly	Grab
Total Dissolved Solids, mg/L <sup>d/</sup>	NA	NA	1650	Monthly	Grab
Total Iron, mg/L	NA	NA	1.0	Monthly	Grab

The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units in any sample and shall be monitored monthly by a grab sample. These limits shall be effective at all discharge points listed in *Part I.D.1.*

The dissolved oxygen (DO) shall not be less than 5.0mg/L as a 30-day average and shall be monitored by a monthly grab sample. This limit shall be effective at all discharge points listed in *Part I.D.1.*

There shall be no visible sheen or floating solids or visible foam in other than trace amounts.

There shall be no discharge of sanitary wastes.

NA - Not Applicable, MGD – Million Gallons per Day.

- a/ See Definitions, *Part I.A* for definition of terms
  - b/ With the exception of outfalls 002 and 003, monitoring for Oil & Grease shall be a visual test performed at least once per month. If any oil and/or grease sheens are observed visually, then a sample of the effluent shall be taken immediately and that sample shall not exceed 10 mg/L. In addition to the monthly sampling requirement for Oil & Grease at outfalls 002 and 003, a sample for Oil & Grease shall also be immediately taken whenever a sheen is observed on the effluent or there is another reason to believe oil and/or grease is present.
  - c/ The total suspended solids limitations are applicable to all outfalls listed in *Part I.D.1.*, except for outfalls 002 and 003.
  - d/ In addition to the concentration limitation, the total amount of total dissolved solids shall not exceed a maximum of 1 ton (2000 lbs) per day as a sum of all outfalls.
2. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: at each of the outfalls prior to mixing with the receiving water
3. Any overflow, increase in volume of a discharge or discharge from a bypass system caused by precipitation within a 24-hour period less than or equal to the 10-year, 24-hour precipitation event (or snow-melt of equivalent volume) at outfalls 007, 008, 009, 012 and 016 may comply with the following limitation instead of the otherwise applicable limitations contained in *Part I.D.1.*, provided the facility has been designed, constructed and operated to adequately treat up to 10-year, 24-hour precipitation event:

<u>Effluent Characteristic</u>	<u>Daily Maximum</u>
Settleable Solids	0.5 mg/L
pH	6.5 to 9.0 S.U.

In addition to the monitoring requirements specified under *Part I.D.1.*, all effluent samples collected during storm water discharge events shall also be analyzed for settleable solids. Such analyses shall be conducted monthly by grab samples.

4. Any overflow, increase in volume of a discharge or discharge from a bypass system caused by precipitation within a 24-hour period greater than the 10-year, 24-hour precipitation event (or snow melt of equivalent volume) at outfalls 007, 008, 009, 012 and 016 may comply with the following limitations instead of the otherwise applicable limitations:

The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units. However, as stated under *Part I.D.3.*, all effluent samples collected during storm water discharge events shall be analyzed for settleable solids and parameters identified under *Part I.D.1.*

5. The operator shall have the burden of proof that the discharge or increase in discharge was caused by the applicable precipitation event described in Parts I.D.3 and 4. The alternate limitations in Parts I.D.3 and 4 shall not apply to treatment systems that treat underground mine water only.
6. Effective immediately and lasting the duration of this permit, the permittee is authorized to discharge from Outfalls 013, 014 and 017. Such discharge shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristics</u>	<u>Discharge Limitationsa/</u>			<u>Monitoring Requirements</u>	
	<u>Average</u>	<u>Daily</u>	<u>Maximum</u>	<u>Measurement</u>	<u>Sample</u>
	<u>30-Day</u>	<u>7-Day</u>	<u>Report</u>	<u>Frequency</u>	<u>Type</u>
Flow, MGD	Report	NA	Report	Monthly	Measured
Oil & Grease, mg/L <sub>b/</sub>	15	NA	20	Monthly/Sheen	Grab/Visual
Total Suspended Solids, mg/L <sub>c/25</sub>	35	100		Monthly	Grab
Total Dissolved Solids, mg/L <sub>d/</sub>	NA	NA	1650	Monthly	Grab
Total Chromium, mg/L <sub>e/</sub>	0.03	NA	0.03	Monthly	Grab
Total Zinc, mg/L <sub>e/</sub>	0.3	NA	0.3	Monthly	Grab

The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units in any sample and shall be monitored monthly by a grab sample. These limits shall be effective at all discharge points listed in *Part I.D.6.*

The permittee shall once each year monitor the effluent at 017 for the 126 priority pollutants to assure no detectable amount present or determine by proper engineering calculations that the 126 priority pollutants are not detectable in the discharge. A letter shall be submitted at the end of each calendar year indicating the presence or absence of any detectable amount of the 126 priority pollutants.

There shall be no visible sheen or floating solids or visible foam in other than trace amounts.

There shall be no discharge of polychlorinated biphenyls.

There shall be no discharge of sanitary wastes.

There shall be no direct discharge of process water to Grassy Trail Creek or Icelander Creek.

NA - Not Applicable, MGD - Million Gallons per Day.

- a/ See Definitions, *Part I.A* for definition of terms.
  - b/ In addition to the monthly sampling requirement for Oil & Grease, a sample for Oil & Grease shall also be immediately taken whenever a sheen is observed on the effluent or there is another reason to believe oil and/or grease is present.
  - c/ Daily maximum total suspended solids shall not be greater than 50 mg/L at outfall 014. Any untreated overflow from facilities designed, constructed, and operated to treat the coal pile runoff which results from a 10-year 24-hour precipitation event shall not be subject to a daily maximum of 50 mg/L.
  - d/ In addition to the concentration limitation, the total amount of total dissolved solids shall not exceed a maximum of 1 ton (2000 lbs) per day as a sum of all outfalls
  - e/ These limitations apply only to discharge point 017.
7. Samples taken in compliance with the monitoring requirements specified under *Part I.D.6* shall be taken at the following locations: at each of the outfalls prior to mixing with the receiving water.
8. Any untreated overflow from facilities designed, constructed, and operated to treat the runoff which results from a 10-year, 24-hour precipitation event at outfalls 013, 014 and 017 may comply with the following limitation instead of the otherwise applicable limitations as contained in *Part I.D.6*:
- The pH shall not be less than 6.5 nor greater than 9.0 S.U.
9. The operator has the burden of proof that the discharge or increase in discharge was caused by the applicable precipitation event described in *Part I.D.8*.

II. STORM WATER DISCHARGE REQUIREMENTS

A. Storm Water Requirements. It has been determined that the permittee has a regulated storm water discharge as per *UAC R317-8-3.9.*, therefore, the following permit conditions governing storm water discharges apply.

1. Coverage of This Section.

a. Discharges Covered Under This Section The requirements listed under this section shall apply to storm water discharges from coal mining related areas (SIC Major Group 12) if they are not subject to effluent limitations guidelines under *40 CFR Part 434.*

(1) Site Coverage Storm water discharges from the following portions of coal mines may be eligible for this permit: haul roads (nonpublic roads on which coal or coal refuse is conveyed), access roads (nonpublic roads providing light vehicular traffic within the facility property and to public roadways), railroad spurs, sidings, and internal haulage lines (rail lines used for hauling coal within the facility property and to offsite commercial railroad lines or loading areas), conveyor belts, chutes, and aerial tramway haulage areas (areas under and around coal or refuse conveyor areas, including transfer stations), equipment storage and maintenance yards, coal handling buildings and structures, and inactive coal mines and related areas (abandoned and other inactive mines, refuse disposal sites and other mining related areas on private lands).

b. Limitations Storm water discharges from inactive mining activities occurring on Federal lands where an operator cannot be identified are not eligible for coverage under this permit.

c. Co-Located Industrial Activities When an industrial facility, described by paragraph *a.* (above) of this section, has industrial activities being conducted onsite that meet the description(s) of industrial activities in another section(s), that industrial facility shall comply with any and all applicable monitoring and pollution prevention plan requirements of the other section(s) in addition to all applicable requirements in this section. The monitoring and pollution prevention plan terms and conditions of this multi-sector permit are additive for industrial activities being conducted at the same industrial facility. The operator of the facility shall determine which other monitoring and pollution prevention plan section(s) of this permit (if any) are applicable to the facility.

2. Prohibition of Non-storm Water Discharges.

a. The following non-storm water discharges may be authorized by this permit provided the non-storm water component of the discharge is in compliance with this section (Section E): discharges from fire fighting activities; fire hydrant flushings; potable water sources including

waterline flushings; drinking fountain water; irrigation drainage, lawn watering; routine external building washdown water where detergents or other compounds have not been used in the process; pavement washwaters where spills or leaks of toxic or hazardous materials (including oils and fuels) have not occurred (unless all spilled material has been removed) and where detergents are not used; air conditioning condensate; uncontaminated compressor condensate; uncontaminated springs; uncontaminated ground water; and foundation or footing drains where flows are not contaminated with process materials such as solvents.

- b. In addition to the broad prohibition of nonstorm water discharges, listed above, point source discharges of pollutant seeps or underground drainage from inactive coal mines and refuse disposal areas that do not occur as storm water discharges in response to precipitation events are also excluded from coverage under this permit. In addition, floor drains from maintenance buildings and other similar drains in mining and preparation plant areas are prohibited.
3. Storm Water Pollution Prevention Plan Requirements Most of the active coal mining-related areas, described in paragraph 1.a.(1) above, are subject to sediment and erosion control regulations of the U.S. Office of Surface Mining (OSM) that enforces the *Surface Mining Control and Reclamation Act (SMCRA)*. OSM has granted authority to the Utah Division of Oil Gas and Mining (DOG M) to implement *SMCRA* through State *SMCRA* regulations. All *SMCRA* requirements regarding control of erosion, siltation and other pollutants resulting from storm water runoff, including road dust resulting from erosion, shall be primary requirements of the pollution prevention plan and shall be included in the contents of the plan directly, or by reference. Where determined to be appropriate for protection of water quality, additional sedimentation and erosion controls may be warranted.
- a. Contents of Plan. The plan shall include at a minimum, the following items:
- (1) Pollution Prevention Team Each plan shall identify a specific individual or individuals within the facility organization as members of a storm water Pollution Prevention Team that are responsible for developing the storm water pollution prevention plan and assisting the facility manager in its implementation, maintenance, and revision. The plan shall clearly identify the responsibilities of each team member. The activities and responsibilities of the team shall address all aspects of the facility's storm water pollution prevention plan.
  - (2) Description of Potential Pollutant Sources Each plan shall provide a description of potential sources that may reasonably be expected to add significant amounts of pollutants to storm water discharges or that may result in the discharge of pollutants during

dry weather from separate storm sewers draining the facility. Each plan shall identify all activities and significant materials that may potentially be significant pollutant sources. Each plan shall include, at a minimum:

(a) Drainage.

- i) A site map, such as a drainage map required for *SMCRA* permit applications, that indicate drainage areas and storm water outfalls. These shall include but not be limited to the following:
  - a) Drainage direction and discharge points from all applicable mining-related areas described in paragraph *1.a.(1)*. (Site Coverage) above, including culvert and sump discharges from roads and rail beds and also from equipment and maintenance areas subject to storm runoff of fuel, lubricants and other potentially harmful liquids.
  - b) Location of each existing erosion and sedimentation control structure or other control measures for reducing pollutants in storm water runoff.
  - c) Receiving streams or other surface water bodies.
  - d) Locations exposed to precipitation that contain acidic spoil, refuse or unreclaimed disturbed areas.
  - e) Locations where major spills or leaks of toxic or hazardous pollutants have occurred.
  - f) Locations where liquid storage tanks containing potential pollutants, such as caustics, hydraulic fluids and lubricants, are exposed to precipitation.
  - g) Locations where fueling stations, vehicle and equipment maintenance areas are exposed to precipitation.
  - h) Locations of outfalls and the types of discharges contained in the drainage areas of the outfalls.

- ii) For each area of the facility that generates storm water discharges associated with the mining related activity with a reasonable potential for containing significant amounts of pollutants, a prediction of the direction of flow, and an identification of the types of pollutants that are likely to be present in storm water discharges associated with the activity. Factors to consider include the toxicity of the pollutant; quantity of chemicals used, produced or discharged; the likelihood of contact with storm water; and history of significant leaks or spills of toxic or hazardous pollutants. Flows with a significant potential for causing erosion shall be identified.
  
- (b) Inventory of Exposed Materials An inventory of the types of materials handled at the site that potentially may be exposed to precipitation. Such inventory shall include a narrative description of significant materials that have been handled, treated, stored or disposed in a manner to allow exposure to storm water 3 years prior to the effective date of this permit; method and location of onsite storage or disposal; materials management practices employed to minimize contact of materials with storm water runoff 3 years prior to the effective date of this permit; a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of any treatment the storm water receives.
  
- (c) Spills and Leaks A list of significant spills and leaks of toxic or hazardous pollutants that occurred at areas that are exposed to precipitation or that otherwise drain to a storm water conveyance at the facility after the date of 3 years prior to the effective date of this permit. Such list shall be updated as appropriate during the term of the permit.
  
- (d) Sampling Data A summary of any existing discharge sampling data describing pollutants in storm water discharges from the portions of the facility covered by this permit, including a summary of any sampling data collected during the term of this permit.
  
- (f) Risk Identification and Summary of Potential Pollutant Sources. A narrative description of the potential pollutant sources from the following activities: truck

traffic on haul roads and resulting generation of sediment subject to runoff and dust generation; fuel or other liquid storage; pressure lines containing slurry, hydraulic fluid or other potential harmful liquids; and loading or temporary storage of acidic refuse or spoil. Specific potential pollutants shall be identified where known.

(3) Measures and Controls Each facility covered by this permit shall develop a description of storm water management controls appropriate for the facility and implement such controls. The appropriateness and priorities of controls in a plan shall reflect identified potential sources of pollutants at the facility. The description of storm water management controls shall address the following minimum components, including a schedule for implementing such controls.

(a) Good Housekeeping Good housekeeping requires the maintenance of areas that may contribute pollutants to storm water discharges in a clean, orderly manner. These would be practices that would minimize the generation of pollutants at the source or before it would be necessary to employ sediment ponds or other control measures at the discharge outlets. Where applicable, such measures or other equivalent measures would include the following: sweepers and covered storage to minimize dust generation and storm runoff; conservation of vegetation where possible to minimize erosion; watering of haul roads to minimize dust generation; collection, removal, and proper disposal of waste oils and other fluids resulting from vehicle and equipment maintenance; or other equivalent measures.

(b) Preventive Maintenance A preventive maintenance program shall involve timely inspection and maintenance of storm water management devices as well as inspecting and testing facility equipment and systems to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters, and ensuring appropriate maintenance of such equipment and systems. Where applicable, such measures would include the following: removal and proper disposal of settled solids in catch basins to allow sufficient retention capacity; periodic replacement of siltation control measures subject to deterioration such as straw bales; inspections of storage tanks and pressure lines for fuels, lubricants, hydraulic fluid or slurry to prevent leaks due to deterioration or faulty connections; or other equivalent measures.

- (c) Spill Prevention and Response Procedures Areas where potential spills that can contribute pollutants to storm water discharges can occur, and their accompanying drainage points shall be identified clearly in the storm water pollution prevention plan. Where appropriate, specifying material handling procedures, storage requirements, and use of equipment such as diversion valves in the plan should be considered. Procedures for cleaning up spills shall be identified in the plan and made available to the appropriate personnel. The necessary equipment to implement a clean up should be available to personnel.
- (d) Inspections In addition to or as part of the comprehensive site evaluation required under paragraph 3.a.(4) of this section, qualified facility personnel shall be identified to inspect designated areas of the facility at appropriate intervals specified in the plan. The following shall be included in the plan:
- i) Active Mining-Related Areas and Those Inactive Areas Under SM CRA Bond Authority. The plan shall require quarterly inspections by the facility personnel for areas of the facility covered by pollution prevention plan requirements. This inspection interval corresponds with the quarterly inspections for the entire facility required to be provided by SM CRA authority inspectors for all mining-related areas under SM CRA authority, including sediment and erosion control measures. Inspections by the facility representative may be done at the same time as the mandatory inspections performed by SM CRA inspectors. Records of inspections of the SM CRA authority facility representatives shall be maintained.
  - ii) Inactive Mining-Related Areas Not Under SM CRA Bond. The plan shall require annual inspections by the facility representative except in situations referred to in paragraph 3.a.(4)(d) below.
  - iii) Inspection Records The plan shall require that inspection records of the facility representative and those of the SM CRA authority inspector shall be maintained. A set of tracking or follow up procedures shall be used to ensure that

appropriate actions are taken in response to the inspections.

- (e) Employee Training Employee training programs shall inform personnel responsible for implementing activities identified in the storm water pollution prevention plan or otherwise responsible for storm water management at all levels of responsibility of the components and goals of the storm water pollution prevention plan. Training should address topics such as spill response, good housekeeping and material management practices. The pollution prevention plan shall identify periodic dates for such training.
- (f) Recordkeeping and Internal Reporting Procedures A description of incidents (such as spills, or other discharges) along with other information describing the quality and quantity of storm water discharges shall be included in the plan required under this part. Inspections and maintenance activities shall be documented and records of such activities shall be incorporated into the plan.
- (g) Non-storm Water Discharges
  - i) Certification. The plan shall include a certification that the discharge has been tested or evaluated for the presence of non-storm water discharges such as drainage from underground portions of inactive mines or floor drains from maintenance or coal handling buildings. The certification shall include the identification of potential significant sources of nonstorm water discharges at the site, a description of the results of any test and/or evaluation, a description of the evaluation criteria or testing method used, the date of any testing and/or evaluation, and the onsite drainage points that were directly observed during the test. Certifications shall be signed in accordance with *Part VI.G.* of this permit.
  - ii) Exceptions. Except for flows from fire fighting activities, authorized sources of nonstorm water listed in paragraph 2.a. that are combined with storm water discharges associated with industrial activity must be identified in the plan. The plan shall identify and ensure the implementation of appropriate pollution prevention measures for the

non-storm water component(s) of the discharge.

- iii) **Failure to Certify.** If the facility is unable to provide the certification required (testing or other evaluation for non-storm water discharges), the *Executive Secretary* must be notified within 180 days after the effective date of this permit. If the failure to certify is caused by the inability to perform adequate tests or evaluations, such notification shall describe: the procedure of any test conducted for the presence of non-storm water discharges; the results of such test or other relevant observations; potential sources of non-storm water to the storm discharge lines; and why adequate tests for such storm discharge lines were not feasible. Non-storm water discharges to waters of the State that are not authorized by a *UPDES* permit are unlawful, and must be terminated.
  
- (h) **Sediment and Erosion Control.** The plan shall identify areas that, due to topography, activities, or other factors, have a high potential for significant soil erosion, and identify structural, vegetative, and/or stabilization measures to be used to limit erosion and reduce sediment concentrations in storm water discharges. As indicated in paragraph A.3. above, *SMCRA* requirements regarding sediment and erosion control measures are primary requirements of the pollution prevention plan for mining-related areas subject to *SMCRA* authority. The following sediment and erosion control measures or other equivalent measures, should be included in the plan where reasonable and appropriate for all areas subject to storm water runoff:
  - i) **Stabilization Measures** Interim and permanent stabilization measures to minimize erosion and lessen amount of structural sediment control measures needed, including: mature vegetation preservation; temporary seeding; permanent seeding and planting; temporary mulching, matting, and netting; sod stabilization; vegetative buffer strips; temporary chemical mulch, soil binders, and soil palliatives; nonacidic roadsurfacing material; and protective trees.
  - ii) **Structural Measures** Structural measures to lessen erosion and reduce sediment discharges,

including: silt fences; earth dikes; straw dikes; gradient terraces; drainage swales; sediment traps; pipe slope drains; porous rock check dams; sedimentation ponds; riprap channel protection; capping of contaminated sources; and physical/chemical treatment of storm water.

- (i) Management of Flow. The plan shall contain a narrative consideration of the appropriateness of traditional storm water management practices (other than those as sediment and erosion control measures listed above) used to manage storm water runoff in a manner that reduces pollutants in storm water runoff from the site. The plan shall provide that the measures, which the permittee determines to be reasonable and appropriate, shall be implemented and maintained. Appropriate measures may include: discharge diversions; drainage/storm water conveyances; runoff dispersion; sediment control and collection; vegetation/soil stabilization; capping of contaminated sources; treatment; or other equivalent measures.
  
- (4) Comprehensive Site Compliance Evaluation. Qualified personnel shall conduct site compliance evaluations at intervals specified in the plan, but in no case less than once a year. Such evaluations shall provide:
  - (a) Areas contributing to a storm water discharge associated with coal mining-related areas shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. These areas include haul and access roads; railroad spurs, sidings, and internal haulage lines; conveyor belts, chutes and aerial tramways; equipment storage and maintenance yards; coal handling buildings and structures; and inactive mines and related areas. Measures to reduce pollutant loadings shall be evaluated to determine whether they are adequate and properly implemented in accordance with the terms of the permit or whether additional control measures are needed. Structural storm water management measures, sediment and erosion control measures, and other structural pollution prevention measures, as indicated in paragraphs 3.a.(3)(h) and 3.a.(3)(i) above and where identified in the plan, shall be observed to ensure that they are operating correctly. A visual evaluation of any equipment needed to implement the plan, such as spill response equipment, shall be made.

- (b) Based on the results of the evaluation, the description of potential pollutant sources identified in the plan, in accordance with paragraph 3.a.(2) of this section, and pollution prevention measures and controls identified in the plan, in accordance with paragraph 3.a.(3) of this section, shall be revised as appropriate within 2 weeks of such evaluation and shall provide for implementation of any changes to the plan in a timely manner. For inactive mines, such revisions may be extended to a maximum of 12 weeks after the evaluation.
- (c) A report summarizing the scope of the evaluation, personnel making the evaluation, the date(s) of the evaluation, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken in accordance with paragraph 3.a.(4)(b) above shall be made and retained as part of the storm water pollution prevention plan for at least 3 year after the date of the evaluation. The report shall identify any incidents of noncompliance. Where a report does not identify any incidents of noncompliance, the report shall contain a certification that the facility is in compliance with the storm water pollution prevention plan and this permit. The report shall be signed in accordance with *Part V.G.* (Signatory Requirements) of this permit.
- (d) Where compliance evaluation schedules overlap with inspections required under 3.a.(3)(d), the compliance evaluation may be conducted in place of one such inspection. Where annual site compliance evaluations are shown in the plan to be impractical for inactive mining sites due to the remote location and inaccessibility of the site, site inspections required under this part shall be conducted at appropriate intervals specified in the plan, but, in no case less than once in 3 years.

4.

Numeric Effluent Limitations There are no additional numeric effluent limitations beyond those described in *Part I.D.* of this permit.

5. Monitoring and Reporting Requirements

- a. Analytical Monitoring Requirements Sunnyside Cogeneration Associates must monitor their storm water discharges associated with industrial activity at least quarterly (4 times per year) during years 2 and 4 of the permit cycle except as provided in paragraphs 5.a.(3) (Sampling Waiver), 5.a.(4) (Representative Discharge), and 5.a.(5) (Alternative Certification). Sunnyside Cogeneration Associates is required to monitor their storm water discharges for the pollutants of concern listed in Table E. below. Reports must be made in accordance with 5.b. (Reporting). In addition to the parameters listed in Table E. below, Sunnyside Cogeneration Associates must provide the date and duration (in hours) of the storm event(s) sampled; rainfall measurements or estimates (in inches) of the storm event that generated the sampled runoff; the duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event; and an estimate of the total volume (in gallons) of the discharge sampled.

**Table E. Monitoring Requirements for Coal Mining Facilities**

Pollutants of Concern	Cut-Off Concentration
Total Recoverable Aluminum	0.75 mg/L
Total Recoverable Iron	1.0 mg/L
Total Suspended Solids	100 mg/L

- (1) Monitoring Periods Coal mining facilities shall monitor samples collected during the sampling periods of: January through March, April through June, July through September, and October through December for the years specified in paragraph a. (above).
- (2) Sample Type A minimum of one grab sample shall be taken. All such samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. The required 72-hour storm event interval is waived where the preceding measurable storm event did not result in a measurable discharge from the facility. The required 72-hour storm event interval may also be waived where the permittee documents that less than a 72-hour interval is representative for local storm events during the season when sampling is being conducted. The grab sample shall be taken during the first 30 minutes of the discharge. If the collection of a grab sample during the first 30 minutes is impracticable, a grab sample can be taken during the first hour of the discharge, and the discharger shall submit with the monitoring report a description of why a grab sample during the first 30 minutes was impracticable. If storm water discharges associated with industrial activity commingle with process or nonprocess water, then where practicable permittees must attempt to sample the storm water discharge before it mixes with the nonstorm water discharge.
- (3) Sampling Waiver
- (a) Adverse Conditions When a discharger is unable to collect samples within a specified sampling period due to adverse climatic conditions, the discharger shall collect a substitute sample from a separate qualifying event in the next monitoring period and submit the data along with the

data for the routine sample in that period. Adverse weather conditions that may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricanes, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).

- (b) Low Concentration Waiver When the average concentration for a pollutant calculated from all monitoring data collected from an outfall during the second year monitoring is less than the corresponding value for that pollutant listed in Table E. under the column Monitoring CutOff Concentration, a facility may waive monitoring and reporting requirements for the fourth year monitoring period. The facility must submit to the *Executive Secretary*, in lieu of the monitoring data, a certification that there has not been a significant change in industrial activity or the pollution prevention measures in area of the facility that drains to the outfall for which sampling was waived.
- (c) Inactive and Unstaffed Site When a discharger is unable to conduct quarterly chemical storm water sampling at an inactive and unstaffed site, the operator of the facility may exercise a waiver of the monitoring requirements as long as the facility remains inactive and unstaffed. The facility must submit to the *Executive Secretary*, in lieu of monitoring data, a certification statement on the *Storm Water Discharge Monitoring Report (SWDMR)* stating that the site is inactive and unstaffed so that collecting a sample during a qualifying event is not possible.
- (4) Representative Discharge When a facility has two or more outfalls that, based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the outfall, the permittee reasonably believes discharge substantially identical effluents, the permittee may test the effluent of one of such outfalls and report that the quantitative data also applies to the substantially identical outfall(s) provided that the permittee includes in the storm water pollution prevention plan a description of the location of the outfalls and explains in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the permittee believes is representative, an estimate of the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area [e.g., low (under 40 percent), medium (40 to 65 percent), or high (above 65 percent)] shall be provided in the plan. The permittee shall include the description of the location of the outfalls, explanation of why outfalls are expected to discharge substantially identical effluents, and estimate of the size of the drainage area and runoff coefficient with the *SWDMR*.
- (5) Alternative Certification A discharger is not subject to the monitoring requirements of this section provided the discharger makes a certification for a given outfall or on a pollutant-by-pollutant basis in lieu of monitoring reports required under paragraph *b.* below, under penalty of law, signed in accordance with *Part V.G.* (Signatory Requirements), that material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, industrial machinery or operations, or significant materials from past

industrial activity that are located in areas of the facility within the drainage area of the outfall are not presently exposed to storm water and are not expected to be exposed to storm water for the certification period. Such certification must be retained in the storm water pollution prevention plan, and submitted to *DWQ* in accordance with *Part V.B.* of this permit. In the case of certifying that a pollutant is not present, the permittee must submit the certification along with the monitoring reports required under paragraph *b.* below. If the permittee cannot certify for an entire period, they must submit the date exposure was eliminated and any monitoring required up until that date. This certification option is not applicable to compliance monitoring requirements associated with effluent limitations.

- b. Reporting. Permittees shall submit monitoring results for each outfall associated with industrial activity [or a certification in accordance with Sections (3), (4), or (5) above] obtained during the second year reporting period, on *Storm Water Discharge Monitoring Report (SWDMR)* form(s) postmarked no later than the 31st day of the following March. Monitoring results [or a certification in accordance with Sections (3), (4), or (5) above] obtained during the fourth year reporting period shall be submitted on *SWDMR* form(s) postmarked no later than the 31st day of the following March. For each outfall, one signed *SWDMR* form must be submitted to the *Executive Secretary* per storm event sampled. Signed copies of *SWDMRs*, or said certifications, shall be submitted to the *Executive Secretary* at the address listed in *Part II.D.* of the permit.
- (1) Additional Notification In addition to filing copies of discharge monitoring reports in accordance with paragraph *b.* (above), coal-mining related facilities with at least one storm water discharge associated with industrial activity through a large or medium municipal separate storm sewer system (systems serving a population of 100,000 or more) must submit signed copies of discharge monitoring reports to the operator of the municipal separate storm sewer system in accordance with the dates provided in paragraph *b.* (above).
- c. Visual Examination of Storm Water Quality Coal mining-related facilities shall perform and document a visual examination of a representative storm water discharge at the following frequencies: quarterly for active areas under *SMCRA* bond located in areas with average annual precipitation over 20 inches; semiannually for inactive areas under *SMCRA* bond, and active areas under *SMCRA* bond located in areas with average annual precipitation of 20 inches or less; visual examinations are not required at inactive areas not under *SMCRA* bond.
- (1) Visual Monitoring Periods Examinations shall be conducted in each of the following quarterly periods for the purposes of visually inspecting storm water runoff or snow melt: January through March; April through June; July through September; and October through December. Semi-annually: January through June and July through December.
- (2) Sample and Data Collection Examinations shall be made of samples collected within the first 60 minutes (or as soon thereafter as practical, but not to exceed two hours) of when the runoff or snowmelt begins discharging. The examinations shall document observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. The examination must be conducted in a well lit area. No analytical

tests are required to be performed on the samples. All such samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. Where practicable, the same individual will carry out the collection and examination of discharges for the life of the permit.

- (3) Visual Storm Water Discharge Examination Reports Visual examination reports must be maintained onsite in the pollution prevention plan. The report shall include the examination date and time, examination personnel, the nature of the discharge (i.e., runoff or snow melt), visual quality of the storm water discharge (including observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.
- (4) Representative Discharge When a facility has two or more outfalls that, based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the outfall, the permittee reasonably believes discharge substantially identical effluents, the permittee may collect a sample of effluent of one of such outfalls and report that the examination data also applies to the substantially identical outfalls provided that the permittee includes in the storm water pollution prevention plan a description of the location of the outfalls and explaining in detail why the outfalls are expected to discharge substantially identical effluents. In addition, for each outfall that the permittee believes is representative, an estimate of the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area [e.g., low (under 40 percent), medium (40 to 65 percent), or high (above 65 percent)] shall be provided in the plan.
- (5) Adverse Conditions When a discharger is unable to collect samples over the course of the visual examination period as a result of adverse climatic conditions, the discharger must document the reason for not performing the visual examination and retain this documentation onsite with the records of the visual examination. Adverse weather conditions which may prohibit the collection of samples include weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricanes, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).
- (6) Inactive and Unstaffed Site When a discharger is unable to conduct visual storm water examinations at an inactive and unstaffed site, the operator of the facility may exercise a waiver of the monitoring requirement as long as the facility remains inactive and unstaffed. The facility must maintain a certification with the pollution prevention plan stating that the site is inactive and unstaffed so that performing visual examinations during a qualifying event is not feasible.

B. EPCRA Section 313 Requirements

1. In areas where Section 313 water priority chemicals are stored, processed or otherwise handled, appropriate containment, drainage control and/or diversionary structures shall be provided. At a minimum, one of the following preventive systems or its equivalent shall be used:
  - a. Curbing, culverts, gutters, sewers, or other forms of drainage control to prevent or minimize the potential for storm water run-on to come into contact with significant sources of pollutants; or
  - b. Roofs, covers or other forms of appropriate protection to prevent storage piles from exposure to storm water and wind.
2. No tank or container shall be used for the storage of a Section 313 water priority chemical unless its material and construction are compatible with the material stored and conditions of storage such as pressure and temperature, etc.

Liquid storage areas for Section 313 water priority chemicals shall be operated to minimize discharges of Section 313 chemicals. Appropriate measures to minimize discharges of Section 313 chemicals may include secondary containment provided for at least the entire contents of the largest single tank plus sufficient freeboard to allow for precipitation, a strong spill contingency and integrity testing plan, and/or other equivalent measures.
3. Material storage areas for Section 313 water priority chemicals other than liquids that are subject to runoff, leaching, or wind shall incorporate drainage or other control features that will minimize the discharge of Section 313 water priority chemicals by reducing storm water contact with Section 313 water priority chemicals.
4. Truck and rail car loading and unloading areas for liquid Section 313 water priority chemicals shall be operated to minimize discharges of Section 313 water priority chemicals. Protection such as overhangs or door skirts to enclose trailer ends at truck loading/unloading docks shall be provided as appropriate. Appropriate measures to minimize discharges of Section 313 chemicals may include: the placement and maintenance of drip pans (including the proper disposal of materials collected in the drip pans) where spillage may occur (such as hose connections, hose reels and filler nozzles) for use when making and breaking hose connections; a strong spill contingency and integrity testing plan; and/or other equivalent measures.
5. Processing equipment and materials handling equipment shall be operated so as to minimize discharges of Section 313 water priority chemicals. Materials used in piping and equipment shall be compatible with the substances handled. Drainage from process and materials handling areas shall minimize storm water contact with Section 313 water priority chemicals. Additional protection such as covers or guards to prevent exposure to wind, spraying or releases from pressure relief vents from causing a discharge of Section 313 water priority chemicals to the drainage system shall be provided as appropriate. Visual inspections or leak tests shall be provided for overhead piping conveying Section 313 water priority chemicals without secondary containment.
6. Drainage from areas covered by paragraphs (1), (2), (3), or (4) of this part (above) should be restrained by valves or other positive means to prevent the discharge of a spill or other excessive leakage of Section 313 water priority chemicals. Where containment units are employed, such units may be emptied by pumps or ejectors; however, these shall be manually activated.

Flapper-type drain valves shall not be used to drain containment areas. Valves used for the drainage of containment areas should, as far as is practical, be of manual, open-and-closed design.

If facility drainage is not engineered as above, the final discharge of all in-facility storm sewers shall be equipped to be equivalent with a diversion system that could, in the event of an uncontrolled spill of Section 313 water priority chemicals, return the spilled material to the facility.

Records shall be kept of the frequency and estimated volume (in gallons) of discharges from containment areas.

7. Other areas of the facility (those not addressed in paragraphs (1), (2), (3), or (4)), from which runoff that may contain Section 313 water priority chemicals or spills of Section 313 water priority chemicals could cause a discharge shall incorporate the necessary drainage or other control features to prevent discharge of spilled or improperly disposed material and ensure the mitigation of pollutants in runoff or leachate.
8. All areas of the facility shall be inspected at specific intervals identified in the plan for leaks or conditions that could lead to discharges of Section 313 water priority chemicals or direct contact of storm water with raw materials, intermediate materials, waste materials or products. In particular, facility piping, pumps, storage tanks and bins, pressure vessels, process and material handling equipment, and material bulk storage areas shall be examined for any conditions or failures that could cause a discharge. Inspection shall include examination for leaks, wind blowing, corrosion, support or foundation failure, or other forms of deterioration or noncontainment. Inspection intervals shall be specified in the plan and shall be based on design and operational experience. Different areas may require different inspection intervals. Where a leak or other condition is discovered that may result in significant releases of Section 313 water priority chemicals to waters of the State action to stop the leak or otherwise prevent the significant release of Section 313 water priority chemicals to waters of the State shall be immediately taken or the unit or process shut down until such action can be taken. When a leak or noncontainment of a Section 313 water priority chemical has occurred, contaminated soil, debris, or other material must be promptly removed and disposed in accordance with Federal, State, and local requirements and as described in the plan.
9. Facilities shall have the necessary security systems to prevent accidental or intentional entry that could cause a discharge. Security systems described in the plan shall address fencing, lighting, vehicular traffic control, and securing of equipment and buildings.
10. Facility employees and contractor personnel that work in areas where Section 313 water priority chemicals are used or stored shall be trained in and informed of preventive measures at the facility. Employee training shall be conducted at intervals specified in the plan, but not less than once per year. Training shall address: pollution control laws and regulations, the storm water pollution prevention plan and the particular features of the facility and its operation that are designed to minimize discharges of Section 313 water priority chemicals. The plan shall designate a person who is accountable for spill prevention at the facility and who will set up the necessary spill emergency procedures and reporting requirements so that spills and emergency releases of Section 313 water priority chemicals can be isolated and contained before a discharge of a Section 313 water priority chemical can occur. Contractor or temporary personnel shall be informed of facility operation and design features in order to prevent discharges or spills from occurring.

III. MONITORING, RECORDING AND REPORTING REQUIREMENTS

- A. Representative Sampling. Samples taken in compliance with the monitoring requirements established under *Part I* shall be collected from the effluent stream prior to discharge into the receiving waters. Samples and measurements shall be representative of the volume and nature of the monitored discharge. Sludge samples shall be collected at a location representative of the quality of sludge immediately prior to the use-disposal practice.
- B. Monitoring Procedures. Monitoring must be conducted according to test procedures approved under *Utah Administrative Code ("UAC") R317-2-10*, unless other test procedures have been specified in this permit.
- C. Penalties for Tampering. The *Act* provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six months per violation, or by both.
- D. Reporting of Monitoring Results. Monitoring results obtained during the previous month shall be summarized for each month and reported on a Discharge Monitoring Report Form (EPA No. 3320-1), post-marked no later than the 28th day of the month following the completed reporting period. If no discharge occurs during the reporting period, "no discharge" shall be reported. Legible copies of these, and all other reports, shall be signed and certified in accordance with the requirements of *Signatory Requirements (see Part V.G)*, and submitted to the Director, Division of Water Quality:
- original to: Department of Environmental Quality  
Division of Water Quality  
288 North 1460 West  
PO Box 144870  
Salt Lake City, Utah 84114-4870
- E. Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any Compliance Schedule of this permit shall be submitted no later than 14 days following each schedule date.
- F. Additional Monitoring by the Permittee. If the permittee monitors any parameter more frequently than required by this permit, using test procedures approved under *UAC R317-2-10* or as otherwise specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR. Such increased frequency shall also be indicated. Only those parameters required by the permit need to be reported.
- G. Records Contents. Records of monitoring information shall include:
1. The date, exact place, and time of sampling or measurements;
  2. The individual(s) who performed the sampling or measurements;
  3. The date(s) and time(s) analyses were performed;
  4. The individual(s) who performed the analyses;
  5. The analytical techniques or methods used; and,
  6. The results of such analyses.
- H. Retention of Records. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the

application for this permit, for a period of at least three years from the date of the sample, measurement, report or application. This period may be extended by request of the Executive Secretary at any time. A copy of this UPDES permit must be maintained on site during the duration of activity at the permitted location.

I. Twenty-four Hour Notice of Noncompliance Reporting

1. The permittee shall (orally) report any noncompliance which may seriously endanger health or environment as soon as possible, but no later than twenty-four (24) hours from the time the permittee first became aware of circumstances. The report shall be made to the Division of Water Quality, (801) 538-6146, or 24 hour answering service (801) 536-4123.
2. The following occurrences of noncompliance shall be reported by telephone (801) 536-4123 as soon as possible but no later than 24 hours from the time the permittee becomes aware of the circumstances:
  - a. Any noncompliance which may endanger health or the environment;
  - b. Any unanticipated bypass which exceeds any effluent limitation in the permit (See *Part IV.G, Bypass of Treatment Facilities*);
  - c. Any upset which exceeds any effluent limitation in the permit (See *Part IV.H, Upset Conditions*); or,
  - d. Violation of a maximum daily discharge limitation for any of the pollutants listed in the permit.
3. A written submission shall also be provided within five days of the time that the permittee becomes aware of the circumstances. The written submission shall contain:
  - a. A description of the noncompliance and its cause;
  - b. The period of noncompliance, including exact dates and times;
  - c. The estimated time noncompliance is expected to continue if it has not been corrected; and,
  - d. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
  - e. Steps taken, if any, to mitigate the adverse impacts on the environment and human health during the noncompliance period.
4. The Executive Secretary may waive the written report on a case-by-case basis if the oral report has been received within 24 hours by the Division of Water Quality, (801) 538-6146.
5. Reports shall be submitted to the addresses in *Part III.D, Reporting of Monitoring Results*.

J. Other Noncompliance Reporting. Instances of noncompliance not required to be reported within 24 hours shall be reported at the time that monitoring reports for *Part III.D* are submitted. The reports shall contain the information listed in *Part III.I.3*.

K. Inspection and Entry. The permittee shall allow the Executive Secretary, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

**PART III**  
**Permit No. UT0024759**

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and,
4. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the *Act*, any substances or parameters at any location.

IV. COMPLIANCE RESPONSIBILITIES

- A. Duty to Comply. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. The permittee shall give advance notice to the Executive Secretary of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- B. Penalties for Violations of Permit Conditions. The Act provides that any person who violates a permit condition implementing provisions of the Act is subject to a civil penalty not to exceed \$10,000 per day of such violation. Any person who willfully or negligently violates permit conditions of the Act is subject to a fine not exceeding \$25,000 per day of violation; Any person convicted under UCA 19-5-115(2) a second time shall be punished by a fine not exceeding \$50,000 per day. Except as provided at Part IV.G, Bypass of Treatment Facilities and Part IV.H, Upset Conditions, nothing in this permit shall be construed to relieve the permittee of the civil or criminal penalties for noncompliance.
- C. Need to Halt or Reduce Activity not a Defense. 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.
- D. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
- E. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.
- F. Removed Substances. Collected screening, grit, solids, sludges, or other pollutants removed in the course of treatment shall be buried or disposed of in such a manner so as to prevent any pollutant from entering any waters of the state or creating a health hazard. Sludge/digester supernatant and filter backwash shall not directly enter either the final effluent or waters of the state by any other direct route.
- G. Bypass of Treatment Facilities
1. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs 2 and 3 of this section. Return of removed substances, as described in Part IV.F, to the discharge stream shall not be considered a bypass under the provisions of this paragraph.
  2. Notice:
    - a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten (10) days before the date of the bypass.
    - b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required under Part III.I, Twenty-four Hour Reporting.

3. Prohibition of bypass.
  - a. Bypass is prohibited and the Executive Secretary may take enforcement action against a permittee for a bypass, unless:
    - (1) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage ;
    - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and,
    - (3) The permittee submitted notices as required under paragraph 2 of this section.
  - b. The Executive Secretary may approve an anticipated bypass, after considering its adverse effects, if the Executive Secretary determines that it will meet the three conditions listed above in paragraph 3.a of this section.

H. Upset Conditions

1. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of paragraph 2. of this section are met. Executive Secretary's administrative determination regarding a claim of upset cannot be judiciously challenged by the permittee until such time as an action is initiated for noncompliance.
2. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
  - a. An upset occurred and that the permittee can identify the cause(s) of the upset;
  - b. The permitted facility was at the time being properly operated;
  - c. The permittee submitted notice of the upset as required under *Part III.I, Twenty-four Hour Notice of Noncompliance Reporting* and,
  - d. The permittee complied with any remedial measures required under *Part IV.D, Duty to Mitigate*.
3. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

- I. Toxic Pollutants. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of *The Water Quality Act of 1987* for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

J. Changes in Discharge of Toxic Substances. Notification shall be provided to the Executive Secretary as soon as the permittee knows of, or has reason to believe:

1. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
  - a. One hundred micrograms per liter (100 ug/L);
  - b. Two hundred micrograms per liter (200 ug/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/L) for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
  - c. Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with *UAC R317-8-3.4(7)* or (10); or,
  - d. The level established by the Executive Secretary in accordance with *UAC R317-8-4.2(6)*.
2. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
  - a. Five hundred micrograms per liter (500 ug/L);
  - b. One milligram per liter (1 mg/L) for antimony;
  - c. Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with *UAC R317-8-3.4(9)*; or,
  - d. The level established by the Executive Secretary in accordance with *UAC R317-8-4.2(6)*.

K. Industrial Pretreatment Any wastewaters discharged to the sanitary sewer, either as a direct discharge or as a hauled waste, are subject to Federal, State and local pretreatment regulations. Pursuant to Section 307 of *The Water Quality Act of 1987*, the permittee shall comply with all applicable federal General Pretreatment Regulations promulgated at *40 CFR 403*, the State Pretreatment Requirements at *UAC R317-8-8*, and any specific local discharge limitations developed by the Publicly Owned Treatment Works (POTW) accepting the wastewaters.

In addition, in accordance with *40 CFR 403.12(p)(1)*, the permittee must notify the POTW, the EPA Regional Waste Management Director, and the State hazardous waste authorities, in writing, if they discharge any substance into a POTW which if otherwise disposed of would be considered a hazardous waste under *40 CFR 261*. This notification must include the name of the hazardous waste, the EPA hazardous waste number, and the type of discharge (continuous or batch).

V. GENERAL REQUIREMENTS

- A. Planned Changes. The permittee shall give notice to the Executive Secretary as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when the alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are not subject to effluent limitations in the permit. In addition, if there are any planned substantial changes to the permittee's existing sludge facilities or their manner of operation or to current sludge management practices of storage and disposal, the permittee shall give notice to the Executive Secretary of any planned changes at least 30 days prior to their implementation.
- B. Anticipated Noncompliance. The permittee shall give advance notice to the Executive Secretary of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- C. Permit Actions. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- D. Duty to Reapply. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. The application shall be submitted at least 180 days before the expiration date of this permit.
- E. Duty to Provide Information. The permittee shall furnish to the Executive Secretary, within a reasonable time, any information which the Executive Secretary may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Executive Secretary, upon request, copies of records required to be kept by this permit.
- F. Other Information. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or any report to the Executive Secretary, it shall promptly submit such facts or information.
- G. Signatory Requirements. All applications, reports or information submitted to the Executive Secretary shall be signed and certified.
  1. All permit applications shall be signed by either a principal executive officer or ranking elected official.
  2. All reports required by the permit and other information requested by the Executive Secretary shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if
    - a. The authorization is made in writing by a person described above and submitted to the Executive Secretary, and,
    - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)

3. Changes to authorization. If an authorization under paragraph *V.G.2* is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph *V.G.2* must be submitted to the Executive Secretary prior to or together with any reports, information, or applications to be signed by an authorized representative.
4. Certification. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

- H. Penalties for Falsification of Reports. The *Act* provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction be punished by a fine of not more than \$10,000.00 per violation, or by imprisonment for not more than six months per violation, or by both.
- I. Availability of Reports. Except for data determined to be confidential under *UAC R317-8-3.2*, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the office of Executive Secretary. As required by the *Act*, permit applications, permits and effluent data shall not be considered confidential.
- J. Oil and Hazardous Substance Liability. Nothing in this permit shall be construed to preclude the permittee of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under the *Act*.
- K. Property Rights. The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.
- L. Severability. The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
- M. Transfers. This permit may be automatically transferred to a new permittee if:
  1. The current permittee notifies the Executive Secretary at least 20 days in advance of the proposed transfer date;
  2. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and,

3. The Executive Secretary does not notify the existing permittee and the proposed new permittee of his or her intent to modify, or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in paragraph 2 above.
- N. State Laws. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by *UCA 19-5-117*.
- O. Water Quality-Reopener Provision. This permit may be reopened and modified (following proper administrative procedures) to include the appropriate effluent limitations and compliance schedule, if necessary, if one or more of the following events occurs:
1. Water Quality Standards for the receiving water(s) to which the permittee discharges are modified in such a manner as to require different effluent limits than contained in this permit.
  2. A final wasteload allocation is developed and approved by the State and/or EPA for incorporation in this permit.
  3. A revision to the current Water Quality Management Plan is approved and adopted which calls for different effluent limitations than contained in this permit.
- P. Toxicity Limitation-Reopener Provision. This permit may be reopened and modified (following proper administrative procedures) to include whole effluent toxicity (WET) testing, a WET limitation, a compliance schedule, a compliance date, additional or modified numerical limitations, or any other conditions related to the control of toxicants if toxicity is detected during the life of this permit.

U.S. Department of Labor

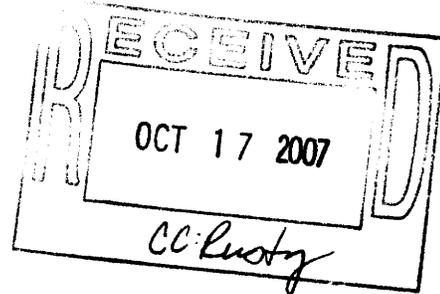
Mine Safety and Health Administration  
P.O. Box 25367  
Denver, Colorado 80225-0367



OCT 11 2007

Coal Mine Safety and Health  
District 9

Michael J. Blakey  
Plant Manager  
Sunnyside Cogeneration Associates  
One Power Plant Road  
Sunnyside, UT 84539



RE: Sunnyside Waste Coal Site  
Mine ID No. 42-02093  
East Slurry Cell  
ID #1211-UT-09-02093-02  
Final Impoundment Abandonment

Dear Mr. Blakey:

MSHA personnel have inspected the referenced impoundment and concur, as stated in your submittal, dated June 15, 2007, that the referenced site was abandoned in a manner to preclude the probability of future impoundment of water, sediment, or slurry. The above referenced impoundment is approved for final abandonment.

The referenced impoundment identification number will be removed from the mine file. MSHA inspection and reporting requirements no longer apply to the referenced structure.

If you have any questions regarding this approval, please contact Billy Owens at 303-231-5590 or Ronald Gehrke at 303-231-5587.

Sincerely,

A handwritten signature in cursive script, reading "Allyn C. Davis", is written below the word "Sincerely,".

Allyn C. Davis  
District Manager

**Section 400**

**Text Pages 400-3 and 400-4**

**Removed to**

**MRP Confidential Binder**

**Appendix 4-1**

**“Site Description”**

**Removed to**

**MRP Confidential Binder**

**Appendix 4-3**

**“Historic and Cultural Site Listings”**

**Removed to**

**MRP Confidential Binder**

**Appendix 4-5**

**“A Stratified Archeological Sample  
Survey”**

**Removed to**

**MRP Confidential Binder**

**Appendix 4-5 drawings V-2 and V-3**

**“A Stratified Archeological Sample  
Survey”**

**Removed to**

**MRP Confidential Binder**

**Plate 4-2**

**“Cultural Survey Areas and Site  
Locations”**

**Removed to**

**MRP Confidential Binder**

**Plate 4-3**

**“Sensitivity Rankings”**

**Removed to**

**MRP Confidential Binder**