

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: December 26, 2017
Permit expiration date: June 26, 2018
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 PM₁₀, sulfur dioxide (SO₂), nitrogen oxide (NO_x), carbon monoxide (CO), and Hazardous Air Pollutant (HAP) emissions. Sunnyside is subject to 40 CFR 64 (Compliance Assurance Monitoring); 40 CFR 60 Subparts Da (Standards of Performance for Electric Utility Steam Generating Units) and Y (Standards of Performance for Coal Preparation and Processing Plants); and 40 CFR 63 Subparts ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines) and UUUUU (National Emissions Standards for Hazardous Air Pollutants: Coal and Oil Fired Electric Utility Steam Generating Units).

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 Da and CAM; and 40 CFR 63 Subpart UUUUU.
- II.A.3 **Controlled Point Sources (EU#2)**
Crusher, Enclosed Conveyor Transfer Points, Coal Silo Bin Vents, Coal delumper, 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 **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.5 **Uncontrolled Point Sources (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.
- II.A.6 **Fugitive Dust Sources (EU#4)**
Coal or Coal Refuse, Mining Operations, Ash Landfill Operations, Unpaved Roads, and Paved Haul Roads.
- II.A.7 **Emergency Diesel Engine (EU#5)**
One emergency diesel engine, approximately 201 HP, used to power the emergency backup fire pump. NESHP ZZZZ.
- II.A.8 **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, a 7,200 gallon storage tank used to store diesel fuel oil used by on-site off roads equipment, and a 250 gallon storage tank used to store diesel fuel oil for the emergency diesel fire pump.
- II.A.9 **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.B **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).**

Visible emissions shall be no greater than 10 percent opacity. [Origin: DAQE-AN0100960029-13]
Authority: [R307-401-8(1)(a)(BACT), 40 CFR 60 Subpart Y]

II.B.5.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. [R307-415-6b]

II.B.5.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. [R307-415-6b]

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 Fugitive Dust Sources (EU#4).**

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

The permittee shall operate in accordance with the most current fugitive dust control plan approved by the Director for the control of all dust sources associated with the plant and Ash Landfill. [Origin: DAQE-AN0100960029-13] Authority: [R307-201-3, R307-401-8(1)(a)(BACT)]

II.B.6.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 PM₁₀ 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 PM₁₀ 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.6.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.6.a.3 **Reporting:**

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

II.B.6.b **Condition:**

Visible emissions shall be no greater than 20 percent opacity. [Origin: DAQE-AN0100960029-13]
Authority: [R307-201-3, R307-401-8(1)(a)(BACT)]

II.B.6.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.6.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.6.b.3 **Reporting:**

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

II.B.7 **Conditions on Emergency Diesel Engines (EU#5)**

II.B.7.a **Condition:**

The permittee shall comply with the following operating limitations at all times for each emergency affected emission unit:

1 The permittee shall operate the affected emission unit according to the requirements in 40 CFR 63.6640(f)(1) through (4). Any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, paragraphs 40 CFR 63.6640(f)(1) through (4), is prohibited. If the engine is not operated in accordance with paragraphs 40 CFR 63.6640(f)(1) through (4), it will not be considered an emergency engine and shall meet all requirements for non-emergency engines.

2. The permittee shall meet the following requirements at all times, except during periods of startup:

(a). Change oil and filter every 500 hours of operation or annually, whichever comes first;

(b). Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first;

(c). Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

3. During periods of startup, the permittee shall minimize the engine's time spent at idle and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

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

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