



State of Utah

SPENCER J. COX
Governor

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Department of
Environmental Quality

Tim Davis
Executive Director

DIVISION OF AIR QUALITY
Bryce C. Bird
Director

DAQE-AN103270031-25

October 3, 2025

Dahl Dalton
Intermountain Power Agency
850 West Brush Wellman Road
Delta, UT 84624-9546
Dahl.Dalton@ipsc.com

Dear Mr. Dalton:

Re: Approval Order: Modification to Approval Order DAQE-AN103270030-22 to Define an
Alternative Operating Scenario for the Continued Operation of the Coal Boiler Plant
Project Number: N103270031

The attached Approval Order (AO) is issued pursuant to the Notice of Intent (NOI) received on April 30, 2025. Intermountain Power Agency must comply with the requirements of this AO, all applicable state requirements (R307), and Federal Standards.

The project engineer for this action is **John Jenks**, who can be contacted at (385) 306-6510 or jjenks@utah.gov. Future correspondence on this AO should include the engineer's name as well as the DAQE number shown on the upper right-hand corner of this letter. Comments were received and considered in this action.

Sincerely,

Bryce C. Bird
Director

BCB:JJ:jg

cc: Central Utah Health Department
EPA Region 8

STATE OF UTAH
Department of Environmental Quality
Division of Air Quality

APPROVAL ORDER
DAQE-AN103270031-25
Modification to Approval Order DAQE-AN103270030-22 to Define
an Alternative Operating Scenario for the Continued Operation of
the Coal Boiler Plant

Prepared By
John Jenks, Engineer
(385) 306-6510
jjenks@utah.gov

Issued to
Intermountain Power Agency - Intermountain Generation Station

Issued On
October 3, 2025

Issued By

A handwritten signature in black ink, appearing to read 'Bryce C. Bird', written in a cursive style.

Bryce C. Bird
Director
Division of Air Quality

TABLE OF CONTENTS

TITLE/SIGNATURE PAGE	1
GENERAL INFORMATION	3
CONTACT/LOCATION INFORMATION	3
SOURCE INFORMATION	3
General Description	3
NSR Classification.....	3
Source Classification	3
Applicable Federal Standards	3
Project Description.....	4
SUMMARY OF EMISSIONS.....	5
SECTION I: GENERAL PROVISIONS.....	5
SECTION II: PERMITTED EQUIPMENT	6
SECTION II: SPECIAL PROVISIONS.....	11
PERMIT HISTORY	20
ACRONYMS	21

GENERAL INFORMATION

CONTACT/LOCATION INFORMATION

Owner Name

Intermountain Power Agency

Source NameIntermountain Power Service Corporation -
Intermountain Generation Station**Mailing Address**850 West Brush Wellman Road
Delta, UT 84624-9546**Physical Address**850 West Brush Wellman Road
Delta, UT 84624-9546**Source Contact**Name: Mike Utley
Phone: (435) 864-6489
Email: mike.utley@ipsc.com**UTM Coordinates**364136.12 m Easting
4374604.80 m Northing
Datum NAD27
UTM Zone 12**SIC code** 4911 (Electric Services)

SOURCE INFORMATION

General Description

Intermountain Power Service Corporation (IPSC) operates the Intermountain Generating Station facility in Delta, Utah. Intermountain Generating Station consists of two coal-fired electric utility steam generating units and the ancillary facilities to support their normal operation. The units are dry-bottom, wall-fired boilers with a nominal capacity of 9,225 MMBtu/hr each. AO DAQE-AN103270030-22 (aka the IPP Renewed Project) authorizes the construction of two 487 MW natural-gas/hydrogen-fueled combined cycle combustion turbine (CCCT) units controlled with selective catalytic reduction (SCR) and requires that the coal-fired units cease operation after the CCCT units become operational. Consistent with UAC 19-2-109.4(a), this AO authorizes an alternative operating scenario (AOS) whereby one or both coal units are authorized to continue operations subject to the conditions established herein. The plant is a Phase II Acid Rain source and is a major source of SO₂, NO_x, PM₁₀, PM_{2.5}, CO, HAP, and HCl emissions

NSR Classification

Minor Modification at Major Source

Source ClassificationLocated in Attainment Area
Millard County
Airs Source Size: AApplicable Federal Standards

NPS (Part 60), A: General Provisions

NSPS (Part 60), Da: Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978

NSPS (Part 60), Db: Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units

NSPS (Part 60), Dc: Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

NSPS (Part 60), Y: Standards of Performance for Coal Preparation and Processing Plants

NSPS (Part 60), IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

NSPS (Part 60), KKKK: Standards of Performance for Stationary Combustion Turbines

NSPS (Part 60), TTTT: Standards of Performance for Greenhouse Gas Emissions for Electric Generating Units

MACT (Part 63), A: General Provisions

MACT (Part 63), ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

MACT (Part 63), DDDDD: National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

MACT (Part 63), UUUUU: National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units

MACT (Part 63), JJJJJ: National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources

Title IV (Part 72 / Acid Rain)

Title V (Part 70) Major Source

Project Description

Intermountain Power Agency (IPA) has submitted an NOI to add an AOS to allow for the limited, continued operations of the coal-fired electric utility steam generating units and the ancillary facilities to support their operation.

AO DAQE-AN103270030-22 authorizes the construction and operation of a new Combustion Turbine Plant consisting of two 487 MW natural gas and hydrogen-fired combined-cycle combustion turbines and associated controls and ancillary equipment. That AO requires that the existing Coal Boiler Plant equipment cease operation and be removed from service when the new Combustion Turbine Plant becomes operational. IPA has proposed adding an AOS to authorize continued operations of the Coal Boiler Plant equipment subject to enforceable limitations on operations of the Coal Boiler Plant to ensure that major NSR is not triggered by the Plant's continued operation. The AOS includes monitoring and recordkeeping requirements that the permittee must follow in order to demonstrate continued operation of the Coal Boiler Plant does not trigger major NSR.

SUMMARY OF EMISSIONS

The emissions listed below are an estimate of the total potential emissions from the source. Some rounding of emissions is possible.

Criteria Pollutant	Change (TPY)	Total (TPY)
CO ₂ Equivalent	4,903,727	8,900,923
Carbon Monoxide	1069.60	1306.11
Nitrogen Oxides	21234.70	21,521.62
Particulate Matter - PM ₁₀	1575.20	1687.77
Particulate Matter - PM _{2.5}	1429.40	1537.69
Sulfur Dioxide	2917.10	3046.00
Volatile Organic Compounds	128.10	210.19

Hazardous Air Pollutant	Change (lbs/yr)	Total (lbs/yr)
Generic HAPs (CAS #GHAPS)	160800	196,360
Lead (CAS #7439921)	2	2
	Change (TPY)	Total (TPY)
Total HAPs	80.40	98.18

SECTION I: GENERAL PROVISIONS

I.1	All definitions, terms, abbreviations, and references used in this AO conform to those used in the UAC R307 and 40 CFR. Unless noted otherwise, references cited in these AO conditions refer to those rules. [R307-101]
I.2	The limits set forth in this AO shall not be exceeded without prior approval. [R307-401]
I.3	Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved. [R307-401-1]
I.4	All records referenced in this AO or in other applicable rules, which are required to be kept by the owner/operator, shall be made available to the Director or Director's representative upon request, and the records shall include the five-year period prior to the date of the request. Unless otherwise specified in this AO or in other applicable state and federal rules, records shall be kept for a minimum of five years. [R307-401-8]
I.5	At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO, 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 Director which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded. [R307-401-4]
I.6	The owner/operator shall comply with UAC R307-107. General Requirements: Breakdowns. [R307-107]
I.7	The owner/operator shall comply with UAC R307-150 Series. Emission Inventories. [R307-150]

I.8	The owner/operator shall submit documentation of the status of construction of the new Combustion Turbine Plant equipment (II.A.3 through II.A.9) to the Director by December 22, 2023. This AO may become invalid if construction is not commenced within 18 months from the date of this AO or if construction is discontinued for 18 months or more. To ensure proper credit when notifying the Director, send the documentation to the Director, attn.: NSR Section. [R307-401-18]
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SECTION II: PERMITTED EQUIPMENT

II.A THE APPROVED EQUIPMENT

II.A.1	Electric Plant Combustion turbine plant, coal-fired boiler plant, emergency equipment, etc.
II.A.2	Combustion Turbine Plant Equipment The following items are located at the new combustion turbine plant
II.A.3	Combined Cycle Combustion Turbines Two 487 MW natural gas and hydrogen-fired combined-cycle combustion turbines Control: SCR and oxidation catalyst
II.A.4	Fuel Gas Heaters Two 9.9 MMBtu/hr natural gas-fired heaters
II.A.5	Auxiliary Boiler 136 MMBtu/hr natural gas-fired auxiliary boiler Control: Low-NO _x Burner (0.14 lb/MMBtu)
II.A.6	Cooling Towers Two six-cell linear mechanical draft cooling towers (LMDCTs) 88,341 gpm of cooling water per tower
II.A.7	Emergency Generators Three diesel-fired emergency generators Rating: 2,500 kW Each NSPS Applicability: Subpart IIII MACT Applicability: Subpart ZZZZ
II.A.8	Firewater Pump One 425 bhp diesel-fired emergency firewater pump engine
II.A.9	Miscellaneous Fugitive Sources Natural gas piping components (pipes, flanges, valves, etc.) New circuit breakers located at switchyard - SF6 insulated and air cooled
II.A.10	Existing Equipment The following existing equipment (II.A.11 through II.A.31) will remain available for operation at the site following installation of the new turbine plant
II.A.11	#1 Lime Dust Collector Dust collector controlling the lime silo

II.A.12	#2 Lime Dust Collector Dust collector controlling the lime hopper
II.A.13	#3 Soda Ash Dust Collector Dust collector controlling the soda ash silo
II.A.14	#4 Soda Ash dust Collector Dust collector controlling the soda ash hopper
II.A.15	Paved Haul Roads
II.A.16	Landfill Class III Industrial Waste Landfill
II.A.17	Gasoline Tank Capacity: 500 gallons
II.A.18	Diesel Tank Capacity: 10,000 gallons
II.A.19	Diesel Day Tanks Maximum capacity: Not to exceed 560 gallons per tank
II.A.20	Mobile Oil Storage Tanks Maximum capacity: Not to exceed 12,000 gallons per tank
II.A.21	Used Oil Tank Capacity: 10,000 gallons
II.A.22	On-Road Diesel Tank Non-commercial, ultra-low sulfur, highway diesel fuel tank Capacity: 500 gallons
II.A.23	Paint booth/shops
II.A.24	Solvent Washer
II.A.25	Bulb recycling crusher
II.A.26	Emergency diesel-driven fire pump Diesel fire pump located at the Intermountain Community Center, but operated by IPP Rating: 290 HP
II.A.27	Engine-Driven Equipment Compressors, generators, hydraulic pumps, and diesel fire pumps
II.A.28	Unpaved Haul Roads
II.A.29	#1B Fire Pump Diesel-driven fire pump Rating: 290 hp
II.A.30	#1C Fire Pump Diesel-driven fire pump Rating: 290 hp

II.A.31	ICS Cooling Towers Eight cooling towers used at the Intermountain Converter Station and auxiliary equipment
II.A.32	Coal-fired Boiler Plant Equipment The following equipment (II.A.32 - II.A.87) is considered part of the coal-fired boiler plant
II.A.33	Unit #1 Coal-Fired Boiler Equipped with low NO _x burners with a maximum heat input of 248 MMBtu/hr per burner Rating - 9,225,000,000 MMBtu/yr
II.A.34	Unit #2 Coal-Fired Boiler Equipped with low NO _x burners with a maximum heat input of 248 MMBtu/hr per burner Rating - 9,225,000,000 MMBtu/yr
II.A.35	Over-Fire Air-Port System Boiler #1 & #2 over-fire air-ports system, 16 per boiler
II.A.36	#1A Dust Collector Dust collector controlling coal railcar unloading
II.A.37	#1B Dust Collector Dust collector controlling coal railcar unloading
II.A.38	#1C Dust Collector Dust collector controlling coal railcar unloading
II.A.39	#1D Dust Collector Dust collector controlling coal railcar unloading
II.A.40	#4 Coal Dust Collector Dust collector controlling Coal transfer building #1
II.A.41	#5 Coal Dust Collector Dust collector controlling coal transfer building #2
II.A.42	#6 Coal Dust Collector Dust collector controlling coal transfer building #4
II.A.43	#11 Coal Dust Collector Dust collector controlling coal crusher building
II.A.44	#13A Coal Dust Collector Dust collector controlling U1 Generation building coal dust
II.A.45	#13B Coal Dust Collector Dust collector controlling U1 Generation building coal dust
II.A.46	#14A Coal Dust Collector Dust collector controlling U2 Generation building coal dust
II.A.47	#14B Coal Dust Collector Dust collector controlling U2 Generation building coal dust
II.A.48	#4 Limestone Dust Collector Dust collector controlling limestone preparation

II.A.49	#2 Coal Dust Collector Dust collector controlling Coal truck unloading
II.A.50	#3 Coal Dust Collector Dust collector controlling coal reserve reclaim
II.A.51	#1A Limestone Dust Collector Dust collector controlling limestone unloading
II.A.52	#1B Limestone Dust Collector Dust collector controlling limestone unloading
II.A.53	#1 Limestone Dust Collector Dust collector controlling limestone transfer
II.A.54	#2 Limestone Dust Collector Dust collector controlling limestone reclaim
II.A.55	Limestone silo bin vent filter
II.A.56	#3 Limestone Dust Collector Dust collector controlling limestone crusher
II.A.57	#1A Filter Fly ash silo bin vent filter
II.A.58	#1B Filter Fly ash silo bin vent filter
II.A.59	Coal sample preparation building dust collector
II.A.60	Sandblast facility dust collector
II.A.61	Dust Collector Dust collector controlling U1 Generation building vacuum cleaning
II.A.62	Dust Collector Dust collector controlling U2 Generation building vacuum cleaning
II.A.63	Dust Collector Dust collector controlling U1 Fabric filter vacuum cleaning
II.A.64	Dust Collector Dust collector controlling U2 Fabric filter vacuum cleaning
II.A.65	Dust Collector Dust collector controlling GSB vacuum cleaning
II.A.66	Coal Pile Active and reserve
II.A.67	Coal Stackout
II.A.68	#1A Tank Fuel oil tank Capacity: 675,000 gallons

II.A.69	#1B Tank Fuel oil tank Capacity: 675,000 gallons
II.A.70	Limestone storage pile
II.A.71	Combustion byproducts stack out & stockpile
II.A.72	Combustion byproducts landfill
II.A.73	#1A Cooling Tower Unit 1 cooling tower
II.A.74	#1B Cooling Tower Unit 1 cooling tower
II.A.75	#1A Cooling Tower Unit 2 cooling tower
II.A.76	#1B Cooling Tower Unit 2 cooling tower
II.A.77	#1A Generator Emergency generator Rating:* 4,000 hp
II.A.78	#1B Generator Emergency generator Rating: 4,000 hp
II.A.79	#1C Generator Emergency generator Rating: 4,000 hp
II.A.80	Engine-Driven Equipment Compressors and hydraulic pumps
II.A.81	Coal Conveyors
II.A.82	Coal Truck Unloading Grating
II.A.83	Laboratory fume hoods
II.A.84	Turbine Lube Oil Units Maximum capacity: Not to exceed 40,000 gallons per tank
II.A.85	Diesel Tank Underground storage diesel tank Capacity: 20,000 gallons
II.A.86	Gasoline Tank Underground storage gasoline tank Capacity: 6,000 gallons
II.A.87	Two Helper Cooling Towers

SECTION II: SPECIAL PROVISIONS

II.B REQUIREMENTS AND LIMITATIONS

II.B.1	Site-wide Requirements
II.B.1.a	<p>Visible emissions from the following emission point sources shall not exceed the listed values:</p> <p>A. All abrasive blasting - 40% opacity (grandfathered equipment).</p> <p>B. All other points - 20% opacity.</p> <p>Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9.</p> <p>For sources that are subject to NSPS, except for the units equipped with a continuous opacity monitoring system, opacity shall be determined by conducting observations in accordance with 40 CFR 60.11(b) and 40 CFR 60, Appendix A, Method 9.</p> <p>[R307-201-3]</p>
II.B.1.b	<p>The owner/operator shall abide by the latest FDCP submitted to the Director for control of all dust sources associated with the Intermountain Power Generation site.</p> <p>Any haul road speeds established in the plan shall be posted. [R307-205]</p>
II.B.1.c	The facility shall abide by all applicable requirements of R307-205 for Fugitive Emission and Fugitive Dust sources. [R307-205]
II.B.2	Stack Testing Requirements
II.B.2.a	The owner/operator shall conduct any stack testing required by this AO according to the following conditions. [R307-401-8]
II.B.2.a.1	<p>Notification</p> <p>At least 30 days prior to conducting a stack test, the owner/operator shall submit a source test protocol to the Director. The source test protocol shall include the items contained in R307-165-3. If directed by the Director, the owner/operator shall attend a pretest conference. [R307-165-3, R307-401-8]</p>
II.B.2.a.2	<p>Testing & Test Conditions</p> <p>The owner/operator shall conduct testing according to the approved source test protocol and according to the test conditions contained in R307-165-4. [R307-165-4, R307-401-8]</p>
II.B.2.a.3	<p>Access</p> <p>The owner/operator shall provide Occupational Safety and Health Administration (OSHA)- or Mine Safety and Health Administration (MSHA)-approved access to the test location. [R307-401-8]</p>
II.B.2.a.4	<p>Reporting</p> <p>No later than 60 days after completing a stack test, the owner/operator shall submit a written report of the results from the stack testing to the Director. The report shall include validated results and supporting information. [R307-165-5, R307-401-8]</p>
II.B.2.a.5	<p>Possible Rejection of Test Results</p> <p>The Director may reject stack testing results if the test did not follow the approved source test protocol or for a reason specified in R307-165-6. [R307-165-6, R307-401-8]</p>

II.B.2.b	Test Methods When performing stack testing, the owner/operator shall use the appropriate EPA-approved test methods as acceptable to the Director. Acceptable test methods for pollutants are listed below. [R307-401-8]
II.B.2.b.1	Standard Conditions A. Temperature - 68 degrees Fahrenheit (293 K). B. Pressure - 29.92 in Hg (101.3 kPa). C. Averaging Time - As specified in the applicable test method. [40 CFR 60 Subpart A, 40 CFR 63 Subpart A, R307-401-8]
II.B.2.b.2	PM₁₀ Total PM ₁₀ = Filterable PM ₁₀ + Condensable PM Filterable PM ₁₀ 40 CFR 60, Appendix A, Method 5; 40 CFR 51, Appendix M, Method 201; Method 201A; or other EPA-approved testing methods as acceptable to the Director. If other approved testing methods are used which cannot measure the PM ₁₀ fraction of the filterable particulate emissions, all of the filterable particulate emissions shall be considered PM ₁₀ . Condensable PM 40 CFR 51, Appendix M, Method 202, or other EPA-approved testing method as acceptable to the Director. [R307-401-8]
II.B.2.b.3	NO_x 40 CFR 60, Appendix A, Method 7; Method 7E; or other EPA-approved testing method as acceptable to the Director. [R307-401-8]
II.B.2.b.4	SO₂ 40 CFR 60, Appendix A, Method 6; Method 6C; or other EPA-approved testing method as acceptable to the Director. [R307-401-8]
II.B.2.b.5	CO 40 CFR 60, Appendix A, Method 10, or other EPA-approved testing method as acceptable to the Director. [R307-401-8]
II.B.2.b.6	VOC 40 CFR 60, Appendix A, Method 18; Method 25; Method 25A; 40 CFR 63, Appendix A, Method 320; or other EPA-approved testing method as acceptable to the Director. [R307-401-8]
II.B.2.b.7	Existing Source Operation: For an existing source/emission point, the production rate during all compliance testing shall be no less than 90% of the maximum production achieved in the previous three years. [R307-401-8]

II.B.3	Combustion Turbine Plant												
II.B.3.a	<p>The owner/operator shall install, calibrate, maintain, and operate a continuous emissions monitoring system on each of the heat recovery stream generator (HRSG) stacks. The owner/operator shall record the NO_x and CO emissions. The monitoring system shall comply with all applicable sections of R307-170, 40 CFR 13, and 40 CFR 60, Appendix B. The NO_x monitor shall comply with 40 CFR 75, Appendices A and B.</p> <p>All continuous emissions monitoring devices as required in federal regulations and state rules shall be installed prior to placing the affected source in operation. These devices shall be certified within 90 days of achieving full load, not to exceed 180 days after startup.</p> <p>Except for system breakdown, repairs, calibration checks, and zero and span adjustments required under paragraph (d) 40 CFR 60.13, the owner/operator of an affected source shall continuously operate all required continuous monitoring systems and shall meet minimum frequency of operation requirements as outlined in R307-170 and 40 CFR 60.13.</p> <p>[40 CFR 60.13, R307-170]</p>												
II.B.3.b	<p>The owner/operator shall use natural gas or hydrogen (H₂) as fuel in the combustion turbines.</p> <p>The owner/operator shall use natural gas as fuel in the auxiliary boiler.</p> <p>[R307-401-8(1)(a)]</p>												
II.B.3.c	<p>The owner/operator shall not exceed 535 million standard cubic feet (SCF) of natural gas consumption at the 136 MMBtu/hr Auxiliary Boiler (II.A.5) per rolling 12-month period.</p> <p>[R307-401-8(1)(a)]</p>												
II.B.3.c.1	<p>Natural gas consumption shall be monitored through use of a flow meter on the natural gas supply line to the Auxiliary Boiler. Fuel usage shall be determined and recorded monthly. By the 20th day of each month, a new rolling 12-month total shall be calculated by summing the monthly fuel usage values for the previous 12 months. Monthly and total 12-month fuel usage shall be recorded in an operations log. [R307-401-8]</p>												
II.B.3.d	<p>Emissions to the atmosphere from each Turbine/HRSG Stack shall not exceed the following rates and concentrations:</p> <table><tr><td>Pollutant</td><td>Limitations</td><td>Averaging Period</td></tr><tr><td>NO_x</td><td>2.0 ppmvd at 15% O₂ *</td><td>30-day rolling</td></tr><tr><td>CO</td><td>2.0 ppmvd at 15% O₂ *</td><td>3-hour</td></tr><tr><td>VOC</td><td>1.0 ppmvd at 15% O₂ *</td><td>3-hour</td></tr></table> <p>* Under steady-state operation.</p> <p>[R307-401-8(1)(a)]</p>	Pollutant	Limitations	Averaging Period	NO _x	2.0 ppmvd at 15% O ₂ *	30-day rolling	CO	2.0 ppmvd at 15% O ₂ *	3-hour	VOC	1.0 ppmvd at 15% O ₂ *	3-hour
Pollutant	Limitations	Averaging Period											
NO _x	2.0 ppmvd at 15% O ₂ *	30-day rolling											
CO	2.0 ppmvd at 15% O ₂ *	3-hour											
VOC	1.0 ppmvd at 15% O ₂ *	3-hour											

II.B.3.d.1	<p>Stack testing to demonstrate compliance with the emission limitations stated in the above condition shall be performed on the following schedule:</p> <p>Each turbine/HRSG stack.</p> <p>NO_x: compliance shall be demonstrated by CEM as outlined in condition II.B.3.a. The Director may require testing at any time.</p> <p>CO: compliance shall be demonstrated by CEM as outlined in condition II.B.3.a. The Director may require testing at any time.</p> <p>VOC: initial testing is required within 180 days of beginning operation, with subsequent testing to be conducted at least once annually. Testing may be replaced with parametric monitoring if approved by the Director.</p> <p>[R307-165, R307-170]</p>
II.B.3.d.2	<p>Steady-state operation means all periods of combustion turbine operation, except for periods of startup and shutdown as defined below. Startup is defined as the period beginning with turbine initial firing until the unit meets the ppmvd emission limits listed in condition II.B.3.d for steady-state operation. Shutdown is defined as the period beginning with the initiation of the turbine shutdown sequence and ending with the cessation of firing of the gas turbine engine.</p> <p>The owner/operator shall ensure the following limitations:</p> <ul style="list-style-type: none"> A. Startup and shutdown events shall not exceed 114.9 hours per turbine per rolling 12-month period and are counted toward the applicable annual emission limitations. B. Emissions of NO_x from either turbine/HRSG stack shall not exceed 100.8 lb/hr during startup or shutdown operations. C. Emissions of CO from either turbine/HRSG stack shall not exceed 624.0 lb/hr during startup or shutdown operations. <p>Compliance with the hours of operation limitation shall be determined through maintenance of an operations log detailing the mode of operation and total hours of operation in each mode.</p> <p>Compliance with the NO_x and CO emission limits shall be determined by CEM as outlined in II.B.3.a.</p> <p>[R307-401-8(1)(a)]</p>
II.B.4	Emergency Engine Requirements
II.B.4.a	The owner/operator shall install emergency engines (II.A.7) that are certified to meet a NO _x emission rate of 7.29 g/kW-hr or less. [R307-401-8(1)(a)]
II.B.4.a.1	To demonstrate compliance with the emission rate, the owner/operator shall keep a record of the manufacturer's certification of emission standards. The record shall be kept for the life of the equipment. [R307-401-8]
II.B.4.b	The owner/operator shall not operate each emergency engine on site for more than 100 hours per rolling 12-month period during non-emergency situations. There is no time limit on the use of the engines during emergencies. [40 CFR 63 Subpart ZZZZ, R307-401-8]

II.B.4.b.1	<p>To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the 20th day of each month using data from the previous 12 months. Records documenting the operation of each emergency engine shall be kept in a log and shall include the following:</p> <ul style="list-style-type: none"> A. The date the emergency engine was used. B. The duration of operation in hours. C. The reason for the emergency engine usage. <p>[40 CFR 60 Subpart ZZZZ, R307-401-8]</p>
II.B.4.b.2	<p>To determine the duration of operation, the owner/operator shall install a non-resettable hour meter for each emergency engine (generator or fire water pump). [40 CFR 60 Subpart ZZZZ, R307-401-8]</p>
II.B.4.c	<p>The owner/operator shall only use diesel fuel (e.g., fuel oil #1, #2, or diesel fuel oil additives) as fuel in each emergency engine (generator or fire water pump). [R307-401-8]</p>
II.B.4.c.1	<p>The owner/operator shall only combust diesel fuel that meets the definition of ultra-low sulfur diesel (ULSD), which has a sulfur content of 15 ppm or less. [R307-401-8]</p>
II.B.4.c.2	<p>To demonstrate compliance with the ULSD fuel requirement, the owner/operator shall maintain records of diesel fuel purchase invoices or obtain certification of sulfur content from the diesel fuel supplier. The diesel fuel purchase invoices shall indicate that the diesel fuel meets the ULSD requirements. [R307-401-8]</p>
II.B.5	<p>Operating Scenarios</p>
II.B.5.a	<p>Primary Operating Scenario (POS): Operation of the New Combustion Turbine Plant and Cessation of the Coal Boiler Plant Operations.</p> <p>The equipment listed in Section II.A.32 under the heading "Coal-fired Boiler Plant Equipment" (II.A.32-II.A.87) shall remain in operation until such time as the new combustion turbines are installed and operational. The new Combustion Turbine Plant will become operational only after a shakedown period, not to exceed 180 days. At that time the Coal Boiler Plant Equipment shall cease operations consistent with UAC §19-2-109.4(3)(b). This cessation of operation of the Coal Boiler Plant Equipment and operation of the Combustion Turbine Plant is the Primary Operating Scenario. The owner/operator shall continue to implement the POS unless and until such time as the AOS listed in II.B.5.b is elected under the conditions set forth in UAC § 19-2-109.4(3)(b). [R307-401]</p>
II.B.5.b	<p>AOS: Operation of the new Combustion Turbine Plant and Continued Operations of the Coal Boiler Plant.</p> <p>The AOS authorizes operation of the new Combustion Turbine Plant in accordance with Section II.B.3 of this AO and continued operations of the Coal Boiler Plant in accordance with Conditions II.B.6 through II.B.7.a of this AO. Additionally, the owner/operator shall comply with the limitations, monitoring, and recordkeeping requirements specified in Section II.B.8. of this AO when operating under the AOS. The owner/operator will notify the Director of its election to operate under the AOS no later than 30 days prior to returning the Coal-fired Boiler Plant Equipment to service. [R307-401]</p>

II.B.5.c	<p>Transfer of Coal Boiler Plant</p> <p>In the event that the owner/operator transfers its rights to own or operate the Coal Boiler Plant to a third party, IPA may request an administrative amendment to this AO to bifurcate the conditions of this AO into two separate approval orders, one AO authorizing operations of the new Combustion Turbine Plant by IPA, and a second AO that authorizes the operations of the Coal Boiler Plant and ancillary facilities by a third party. Upon issuance of a separate AO to a third party to operate the Coal Boiler Plant, operation of the Coal Boiler Plant shall be at the sole discretion of the third-party permittee, subject to the limitations established in the newly issued AO. [R307-401]</p>
II.B.5.d	<p>Severability</p> <p>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. This includes a challenge or stay imposed on the AOS authorized by Section II.B.5.b of this Approval Order. In such case, the POS authorized in Section II.B.5.a, which was authorized by AO DAQE-AN103270030-22, will remain in force. Furthermore, consistent with UAC §19-2-109.4(3)(b), AO DAQE-AN103270030-22 shall not be deemed to be superseded by this Approval Order until such time as any and all administrative and legal challenges to this Approval Order have been resolved. [UAC 19-2-109.4(3)(b)]</p>
II.B.6	<p>Unit #1 & Unit #2 Main Boilers</p>
II.B.6.a	<p>The owner/operator shall combust only bituminous and subbituminous coals, non-limited synthetic coal-derived fuels, and refined coal (synfuels) as primary fuels and shall only use diesel oil or natural gas during the startups, shutdowns, maintenance, performance tests, upsets, and for flame stabilization in the 9,225 MMBtu/hr boilers. The owner/operator may fuel-blend self-generated used oil with coal at the active coal pile reclaim structure, provided that self-generated used oil has not been mixed with hazardous waste. [R307-401]</p>
II.B.6.a.1	<p>The sulfur content of any fuel oil combusted shall not exceed 0.85 lb/MMBtu heat input in the main boilers. The sulfur content shall be determined by ASTM Method D-4294-89 or approved equivalent. Certification of fuel oil shall either be by IPSC's own testing or test reports from the fuel oil marketer. [R307-203]</p>
II.B.6.b	<p>The owner/operator shall install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) on the main boiler stacks and SO₂ removal scrubber inlets. The owner/operator shall record the output of the system, for measuring the opacity, SO₂, NO_x, and CO₂ emissions. The monitoring system shall comply with all applicable sections of R307-170, UAC, and 40 CFR 60, Appendix B.</p> <p>All continuous emissions monitoring devices as required in federal regulations and state rules shall be installed and operational prior to placing the affected source in operation.</p> <p>Except for system breakdown, repairs, calibration checks, and zero and span adjustments required under paragraph (d) 40 CFR 60.13, the owner/operator of an affected source shall continuously operate all required continuous monitoring devices and shall meet minimum frequency of operation requirements as outlined in 40 CFR 60.13 and Section UAC R307-170.</p> <p>[R307-150]</p>

II.B.6.c	<p data-bbox="347 197 786 226">Unit #1 & Unit #2 Main Boiler Stack</p> <p data-bbox="347 226 1414 317">Except for the time of start-up, shut-down, malfunction (NO_x or PM₁₀ only), or emergency conditions (SO₂ only), emissions to the atmosphere at all times from the indicated emission points shall not exceed the following rates and concentrations:</p> <table data-bbox="347 342 1045 464"><thead><tr><th data-bbox="347 342 467 371">Pollutant</th><th data-bbox="537 342 808 371">lb/MMBtu heat input</th></tr></thead><tbody><tr><td data-bbox="347 371 412 401">PM₁₀</td><td data-bbox="537 371 634 401">0.0184*</td></tr><tr><td data-bbox="347 401 396 430">SO₂</td><td data-bbox="537 401 1045 430">0.138 ** (based on 30-day rolling average)</td></tr><tr><td data-bbox="347 430 402 459">NO_x</td><td data-bbox="537 430 1045 459">0.461 ** (based on 30-day rolling average)</td></tr></tbody></table> <p data-bbox="347 489 1101 518">* Test once a year. The Director may require testing at any time.</p> <p data-bbox="347 518 1446 577">** Compliance for NO_x and SO₂ emissions shall be demonstrated through use of a continuous emissions monitoring system as outlined in Condition II.B.6.b.</p> <p data-bbox="347 606 483 636">[R307-401]</p>	Pollutant	lb/MMBtu heat input	PM ₁₀	0.0184*	SO ₂	0.138 ** (based on 30-day rolling average)	NO _x	0.461 ** (based on 30-day rolling average)
Pollutant	lb/MMBtu heat input								
PM ₁₀	0.0184*								
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NO _x	0.461 ** (based on 30-day rolling average)								

II.B.6.c.1

Calculations for Test Results: Unit #1 & Unit #2 Boiler Stacks

To determine mass emission rates (lb/hr, etc.), the pollutant concentration as determined by the appropriate methods above shall be multiplied by the volumetric flow rate and any necessary conversion factors determined by the Director to give the results in the specified units of the emission limitation.

Pollutant	lbs/hr (Compliance demonstration)
CO	1320 lb/hr rate (monthly block average)

Combustion flue gas percent O₂ shall be monitored and recorded at least once per 15 minutes at the exit path of each boiler. Measurements are weighted average results collected from several sensors located in each boiler exit flue path. Calibrations shall be maintained within the manufacturer's recommendations.

Over-Fire Air (OFA) operating condition shall be monitored and recorded at least once per 15 minutes. Monitoring shall include OFA position and status, i.e., No OFA, 1/3 OFA, 2/3 OFA, throttled, or open. Operational status is measured by the OFA system damper position.

Using the data above and this formula, CO concentration (ppmvd) shall be calculated and averaged hourly, except for periods of calibration, maintenance, or malfunction of the instrumentation or data system. For periods of calibration, maintenance, or malfunction of instrumentation or data collection system, missing data shall be backfilled following procedures similar to 40 CFR Part 75 Subpart D and used for compliance determinations.

$$[C_{ppmvd}] = n * (O_2\%)^a$$

Where:

$[C_{ppmvd}]$ = concentration of CO in parts per million volume dry

n = curve specific factor obtained from the table below

$O_2\%$ = percent O₂ measured at the boiler stack exit

a = curve specific exponent obtained from the table below

Values for n and a factors:

	n	a
No. OFA	47259	-7.6817
1/3 OFA	66265	-7.9824
2/3 OFA (Throttled)	4029.2	-4.0112
2/3 OFA (full open)	1372.4	-3.0919

The hourly mass emission rates in lb per hour shall be calculated using the following formula or any necessary conversion factors determined by the Director to give the results in the specified units of the emission limitation.

$$[Clb/hr] = [C_{ppmvd}] * 2.59 * 10E-9 * MW * Fd * 20.9/(20.9-O_2\%) * HI$$

Where:

$[Clb/hr]$ = pound per hour emission rate

$[C_{ppmvd}]$ = hourly average of CO emissions in parts per million

$2.59*10E-9$ = conversion factor for pound per standard cubic feet

MW = molecular weight of CO

Fd = F factor to convert standard cubic feet per MMBtu heat input.

$O_2\%$ = hourly average of excess combustion oxygen, in percent

HI = heat input, in MMBtu per hour

By the 15th day of each month, the monthly average of CO emissions in lb/hr shall be calculated by using the hourly average CO emission values in lb/hr.

[R307-401]

II.B.6.d	The owner/operator shall comply with R307-424 Permits: Mercury Requirements for Electric Generating Units. [R307-424-4]																								
II.B.7	Dust Collectors																								
II.B.7.a	<p>Except for times of start-up, shut-down, or malfunction, differential pressure at the indicated emission points, at all times, shall be within the following limits:</p> <table> <tr> <th>Pollutant/Source</th><th>Differential Pressure Range Across the Dust Collector (Inches of water gage)</th></tr> <tr> <td>PM₁₀</td><td></td></tr> <tr> <td>(4) Rail car unloading units</td><td>0.5 to 12</td></tr> <tr> <td>Transfer building #1</td><td>0.5 to 12</td></tr> <tr> <td>Transfer building #2</td><td>0.5 to 12</td></tr> <tr> <td>Transfer building #4</td><td>0.5 to 12</td></tr> <tr> <td>Crusher building #1</td><td>0.5 to 12</td></tr> <tr> <td>Unit one 13A</td><td>0.5 to 12</td></tr> <tr> <td>Unit one 13B</td><td>0.5 to 12</td></tr> <tr> <td>Unit two 14A</td><td>0.5 to 12</td></tr> <tr> <td>Unit two 14B</td><td>0.5 to 12</td></tr> <tr> <td>Limestone preparation building</td><td>0.5 to 12</td></tr> </table> <p>If any differential pressure is less than 2 inches or greater than 10 inches, work orders will be written to investigate. Dust collector may run in the 0.5 to 2 or 10 to 12 range if reason is known. Intermittent recording of the reading is required on a monthly basis. The instrument shall be calibrated against a primary standard annually. Preventive maintenance shall be done quarterly on each baghouse.</p> <p>[R307-401]</p>	Pollutant/Source	Differential Pressure Range Across the Dust Collector (Inches of water gage)	PM ₁₀		(4) Rail car unloading units	0.5 to 12	Transfer building #1	0.5 to 12	Transfer building #2	0.5 to 12	Transfer building #4	0.5 to 12	Crusher building #1	0.5 to 12	Unit one 13A	0.5 to 12	Unit one 13B	0.5 to 12	Unit two 14A	0.5 to 12	Unit two 14B	0.5 to 12	Limestone preparation building	0.5 to 12
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II.B.8	Alternate Operating Scenario for Continued Operation of Coal Boiler Plant																								
II.B.8.a	If the owner/operator elects to operate under the AOS in section II.B.5.b, it shall comply with the monitoring and recordkeeping requirements in this Section II.B.8. [R307-401]																								
II.B.8.b	The owner/operator shall notify the Director at least 30 days prior to the effective date on which operations will commence under the AOS specified in Section II.B.5.b. [R307-401]																								
II.B.8.c	<p>The owner/operator shall limit emissions from the operation of the Coal Boiler Plant (on a tons per 12-month rolling total basis):</p> <table> <tr> <td colspan="2">Unit 1 & Unit 2 (combined):</td></tr> <tr> <td>PM₁₀:</td><td>1,404.0</td></tr> <tr> <td>PM_{2.5}:</td><td>1,404.0</td></tr> <tr> <td>NO_x:</td><td>21,234.7</td></tr> <tr> <td>SO₂:</td><td>2,917.1</td></tr> <tr> <td>CO:</td><td>1,069.6</td></tr> <tr> <td>VOC:</td><td>128.1</td></tr> <tr> <td>Sulfuric Acid Mist (SAM):</td><td>5.7</td></tr> <tr> <td colspan="2">Cooling Towers</td></tr> <tr> <td>PM:</td><td>60.5</td></tr> <tr> <td>PM₁₀:</td><td>42.3</td></tr> <tr> <td>PM_{2.5}:</td><td>25.4</td></tr> </table> <p>[R307-401]</p>	Unit 1 & Unit 2 (combined):		PM ₁₀ :	1,404.0	PM _{2.5} :	1,404.0	NO _x :	21,234.7	SO ₂ :	2,917.1	CO:	1,069.6	VOC:	128.1	Sulfuric Acid Mist (SAM):	5.7	Cooling Towers		PM:	60.5	PM ₁₀ :	42.3	PM _{2.5} :	25.4
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II.B.8.d	<p>In order to demonstrate compliance with the 12-month rolling total emission limitations, the owner/operator shall conduct the following monitoring, recordkeeping, and reporting requirements:</p> <p>A. For Units 1 and 2, NO_x and SO₂ emissions shall be monitored and recorded using the existing CEMS.</p> <p>B. For all other regulated NSR pollutants with emissions limitations shown above, use the monthly fuel usage rates and fuel-specific emission factors to estimate monthly emissions.</p> <p>C. For cooling towers, use the monthly average recirculation water flow rate and TDS to calculate monthly emissions.</p> <p>D. Calculate a new 12-month rolling total by adding the current month's emissions to the previous 11-months emissions totals.</p> <p>[R307-401]</p>
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PERMIT HISTORY

This Approval Order shall supersede (if a modification) or will be based on the following documents:

Supersedes
Is Derived From

AO DAQE-AN103270030-22 dated December 5, 2022
NOI dated April 30, 2025

ACRONYMS

The following lists commonly used acronyms and associated translations as they apply to this document:

40 CFR	Title 40 of the Code of Federal Regulations
AO	Approval Order
BACT	Best Available Control Technology
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CDS	Classification Data System (used by Environmental Protection Agency to classify sources by size/type)
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Regulations
CMS	Continuous monitoring system
CO	Carbon monoxide
CO ₂	Carbon Dioxide
CO ₂ e	Carbon Dioxide Equivalent - Title 40 of the Code of Federal Regulations Part 98, Subpart A, Table A-1
COM	Continuous opacity monitor
DAQ/UDAQ	Division of Air Quality
DAQE	This is a document tracking code for internal Division of Air Quality use
EPA	Environmental Protection Agency
FDCP	Fugitive dust control plan
GHG	Greenhouse Gas(es) - Title 40 of the Code of Federal Regulations 52.21 (b)(49)(i)
GWP	Global Warming Potential - Title 40 of the Code of Federal Regulations Part 86.1818-12(a)
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
LB/YR	Pounds per year
MACT	Maximum Achievable Control Technology
MMBTU	Million British Thermal Units
NAA	Nonattainment Area
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOI	Notice of Intent
NO _x	Oxides of nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PM ₁₀	Particulate matter less than 10 microns in size
PM _{2.5}	Particulate matter less than 2.5 microns in size
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
R307	Rules Series 307
R307-401	Rules Series 307 - Section 401
SO ₂	Sulfur dioxide
Title IV	Title IV of the Clean Air Act
Title V	Title V of the Clean Air Act
TPY	Tons per year
UAC	Utah Administrative Code
VOC	Volatile organic compounds