State of Utah

SPENCER J. COX
Governor

DEIDRE HENDERSON
Lieutenant Governor

Department of
Environmental Quality

Tim Davis
Executive Director

DIVISION OF AIR QUALITY
Bryce C. Bird
Director

DAQE-AN162210002-25

December 18, 2025

Michael Welch
Aligned Energy Data Centers (WJU) PropCo, LLC
2800 Summit Avenue
Plano, TX 75074
Michael.Welch@aligneddc.com

Dear Mr. Welch:

Re: Approval Order: Modification to Approval Order DAQE-AN162210001-24 to Add Twelve (12) Turbines and Remove Seventy-Three (73) Emergency Engines
Project Number: N162210002

The attached Approval Order (AO) is issued pursuant to the Notice of Intent (NOI) received on July 25, 2025. Aligned Energy Data Centers (WJU) PropCo, LLC must comply with the requirements of this AO, all applicable state requirements (R307), and Federal Standards.

The project engineer for this action is **Christine Bodell**, who can be contacted at (385) 290-2690 or cbodell@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. No public comments were received on this action.

Sincerely,

Bryce C. Bird
Director

BCB:CB:jg

cc: Salt Lake County Health Department

STATE OF UTAH
Department of Environmental Quality
Division of Air Quality

APPROVAL ORDER
DAQE-AN162210002-25
Modification to Approval Order DAQE-AN162210001-24 to Add Twelve (12) Turbines and Remove Seventy-Three (73) Emergency Engines

Prepared By
Christine Bodell, Engineer
(385) 290-2690
cbodell@utah.gov

Issued to
Aligned Data Centers (WJU) PropCo, LLC - West Jordan Data Center

Issued On
December 18, 2025

Issued By



Bryce C. Bird
Director
Division of Air Quality

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GENERAL INFORMATION

CONTACT/LOCATION INFORMATION

Owner Name
Aligned Data Centers (WJU) PropCo, LLC

Source Name
Aligned Data Centers (WJU) PropCo, LLC - West Jordan Data Center

Mailing Address
2800 Summit Avenue
Plano, TX 75074

Physical Address
6800 West 9800 South
West Jordan, UT 84081

Source Contact
Name: Michael Welch
Phone: (203) 981-6922
Email: Michael.Welch@aligneddc.com

UTM Coordinates
410,705 m Easting
4,491,561 m Northing
Datum NAD83
UTM Zone 12

SIC code 7376 (Computer Facilities Management Services)

SOURCE INFORMATION

General Description
Aligned Data Centers (WJU) PropCo, LLC (Aligned) operates a data center power station in West Jordan, Salt Lake County. The data center runs on line power and natural gas-fired turbines. A maximum of one hundred nineteen (119) diesel-fueled emergency engines will be used to provide power in the event of an emergency. Each emergency engine will have a diesel fuel storage tank.

NSR Classification
Minor Modification at Minor Source

Source Classification
Located in Northern Wasatch Front O3 NAA, Salt Lake City UT $PM_{2.5}$ NAA, Salt Lake County SO_2 NAA
Salt Lake County
Airs Source Size: SM

Applicable Federal Standards
NSPS (Part 60), A: General Provisions
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
MACT (Part 63), A: General Provisions
MACT (Part 63), ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Title V (Part 70) Area Source

Project Description
Aligned has requested a modification to AO DAQE-AN162210001-24, dated November 19, 2024, for the following changes:

1. Add twelve (12) simple cycle natural gas-fired turbines (turbines) to provide primary power for the data center buildings.
2. Reduce the quantity of 3,100-kilowatt (kW) diesel-fired emergency generators (Equipment ID# II.A.2 in 2024 AO) and the associated fuel storage tanks from one hundred eighty-two (182) to one hundred twelve (112).
3. Reduce the quantity of 1,000 kW diesel-fired emergency generators (Equipment ID# II.A.3 in 2024 AO) and associated fuel storage tanks from 10 to 7.

The West Jordan Data Center has the potential to emit more than 50 tons per year of NO_x and is located in Salt Lake County. Therefore, this project requires an emission offset of 1.2:1 under Utah Administrative Code Rule R307-421 (Permits: PM_{10} Offset Requirements in Salt Lake County and Utah County).

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	746067	751847.00
Carbon Monoxide	22.98	37.23
Nitrogen Oxides	37.96	62.30
Particulate Matter - PM_{10}	41.65	42.46
Particulate Matter - $PM_{2.5}$	41.65	42.46
Sulfur Dioxide	8.88	8.94
Volatile Organic Compounds	23.75	24.46

Hazardous Air Pollutant	Change (lbs/yr)	Total (lbs/yr)
1,3-Butadiene (CAS #106990)	5	5
Acetaldehyde (CAS #75070)	433	433
Acrolein (CAS #107028)	70	70
Benzene (Including Benzene From Gasoline) (CAS #71432)	104	164
Ethyl Benzene (CAS #100414)	346	346
Formaldehyde (CAS #50000)	7678	7678
Hexane (CAS #110543)	0	1
Naphthalene (CAS #91203)	6	6
PAH, Total (CAS #234)	24	24
Propylene Dichloride (1,2-Dichloropropane) (CAS #78875)	-78	122
Propylene Oxide (CAS #75569)	113	313

Toluene (CAS #108883)	1401	1421
Xylenes (Isomers And Mixture) (CAS #1330207)	688	708
	Change (TPY)	**Total (TPY)**
Total HAPs	5.48	5.64

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 two-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 two (2) 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 or modification to the Director within 18 months from the date of this AO. 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]

SECTION II: PERMITTED EQUIPMENT

II.A THE APPROVED EQUIPMENT

II.A.1	**West Jordan Data Center**

II.A.2	**Emergency Generator Engines** One Hundred Twelve (112) Emergency Generator Engines Maximum Rating: 3,100 kW (4,393 hp), each Fuel: Ultra-Low-Sulfur Diesel Certification: Tier 2 Control: Selective Catalytic Reduction NSPS Applicability: Subpart IIII MACT Applicability: Subpart ZZZZ
II.A.3	**Emergency Generator Engines** Seven (7) Emergency Generator Engines Maximum Rating: 1,000 kW (1,341 hp), each Fuel: Ultra-Low-Sulfur Diesel Certification: Tier 2 Control: Selective Catalytic Reduction NSPS Applicability: Subpart IIII MACT Applicability: Subpart ZZZZ
II.A.4	**One Hundred Nineteen (119) Fuel Storage Tanks** Capacity: 5,000 gallons, each
II.A.5	**Twelve (12) Turbines** Fuel: Natural Gas Rated Output: 16.53 MW @ ISO each Rated Heat Rate: 159 MMBtu/hr @ ISO, each NSPS Applicability: 40 CFR 60, Subpart KKKK MACT Applicability: None

SECTION II: SPECIAL PROVISIONS

II.B REQUIREMENTS AND LIMITATIONS

II.B.1	**Site-Wide Requirement**
II.B.1.a	Unless otherwise stated in this AO, the owner/operator shall not allow visible emissions from any source on site exceed 20% opacity. [R307-201-3, R307-401-8]
II.B.1.a.1	Opacity observations of emissions from stationary sources shall be conducted in accordance with 40 CFR 60, Appendix A, Method 9. [R307-401-8]
II.B.2	**Emergency Engine Requirements**
II.B.2.a	The owner/operator shall not operate more than three (3) emergency generator engines at the same time during maintenance and testing operations. [R307-401-8]
II.B.2.b	The owner/operator shall not operate any emergency engine for maintenance and testing before 6:00 am or after 6:00 pm each day. [R307-401-8]
II.B.2.c	The owner/operator shall not conduct testing and maintenance of each emergency engine more than fifty-two (52) times per year. [R307-401-8]

II.B.2.c.1	To show compliance with the above three (3) conditions, the owner/operator shall keep and maintain the following records for all periods each emergency engine is in operation for maintenance and testing purposes: A. Date and time maintenance and testing operations begin for each engine B. Date and time maintenance and testing operations end for each engine C. Record which emergency engine was maintained and tested D. Maintain records of maintenance and testing on a daily basis [R307-401-8]
II.B.2.d	The owner/operator shall install selective catalytic reduction (SCR) controls on each emergency generator engine. Emissions from the engine exhaust shall be routed through the SCR unit before being vented to the atmosphere. [R307-401-8]
II.B.2.e	The owner/operator shall operate the SCRs in accordance with manufacturer specifications and recommendations to minimize ammonia slip. [R307-401-8]
II.B.2.e.1	The owner/operator shall inspect the SCRs each calendar year and replace the catalyst in accordance with manufacturer recommendations. Records of SCR inspections and catalyst replacement shall be kept for the life of the equipment. [R307-401-8]
II.B.2.f	The owner/operator shall: A. Certify that each emergency generator engine with a maximum rating of 3,100 kW (4,393 hp) installed on site has a controlled (i.e., accounting for SCR) NO_x emission rate of 0.54 grams per horsepower hour (g/hp-hr) or less at the exhaust point B. Certify that each emergency generator engine with a maximum rating of 1,000 kW (1,341 hp) installed on site has a controlled (i.e., accounting for SCR) NO_x emission rate of 0.60 grams per horsepower hour (g/hp-hr) or less at the exhaust point [R307-401-8]
II.B.2.f.1	To demonstrate compliance with the above condition, the owner/operator shall either: A. Purchase a stationary internal combustion engine which has obtained certification as defined in 40 CFR 1039.801; or B. Conduct an initial performance test according to 40 CFR part 1039 C. Maintain the manufacturer's emissions guarantee for the installed engine model [R307-401-8]
II.B.2.g	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. At no point shall the owner/operator exceed the diesel fuel consumption limit outlined in Condition II.B.3.b. [40 CFR 63 Subpart ZZZZ, R307-401-8]

II.B.2.g.1	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: A. The date the emergency engine was used B. The duration of operation in hours C. The reason for the emergency engine usage [40 CFR 63 Subpart ZZZZ, R307-401-8]
II.B.2.g.2	To determine the duration of operation, the owner/operator shall install a non-resettable hour meter for each emergency engine. [40 CFR 63 Subpart ZZZZ, R307-401-8]
II.B.3	**Emergency Engine Fuel Requirements**
II.B.3.a	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. [R307-401-8]
II.B.3.a.1	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. [40 CFR 63 Subpart ZZZZ, R307-401-8]
II.B.3.a.2	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]
II.B.3.b	The owner/operator shall not consume more than 315,895 gallons of diesel fuel per rolling 12-month period for non-emergency situations in the emergency engines. There is no diesel fuel consumption limit on the diesel fuel consumption of the engines during emergencies. [R307-401-8]
II.B.3.b.1	The owner/operator shall: A. Determine diesel fuel consumption with billing records, dip-stick measurements, or other appropriate methods B. Record diesel fuel consumption on a monthly basis C. Use the consumption data to calculate a new rolling 12-month total by the 20th day of each month using data from the previous 12 months for diesel fuel D. Keep the consumption records for all periods the plant is in operation [R307-401-8]
II.B.3.b.2	The owner/operator shall subtract the amount of diesel fuel consumption during emergency situations from the total diesel fuel consumption to calculate the non-emergency diesel fuel consumption amounts. [R307-401-8]
II.B.4	**Turbine Requirements**
II.B.4.a	The owner/operator shall not allow visible emissions from each turbine on site to exceed 10% opacity. [R307-401-8]
II.B.4.b	The owner/operator shall use only natural gas as fuel in the turbines. [R307-401-8]

II.B.4.c	The owner/operator shall install SCR and catalytic oxidation control technology on each turbine. Emissions from the turbine exhaust shall be routed through the SCR and catalytic oxidation control unit before being vented to the atmosphere. [R307-401-8]
II.B.4.d	The owner/operator shall operate the SCR and catalytic oxidation control units in accordance with manufacturer specifications and recommendations. [R307-401-8]
II.B.4.e	The owner/operator shall inspect each SCR and catalytic oxidation unit each calendar year and replace the catalyst in accordance with manufacturer recommendations. Records of SCR and catalytic oxidation unit inspections and catalyst replacements shall be kept for the life of the equipment. [R307-401-8]
II.B.4.f	The owner/operator shall not produce more than 1,012,305.6 MWh of energy combined from the turbine generators per rolling 12-month period. [R307-401-8]
II.B.4.f.1	The owner/operator shall: A. Determine production with meters located at the generator terminals B. Record production on a daily basis C. Use the production data to calculate a new rolling 12-month total by the 20th day of each month using data from the previous 12 months D. Keep the production records for all periods the plant is in operation [R307-401-8]
II.B.5	**Turbine Stack Testing Requirements**
II.B.5.a	The owner/operator shall not emit more than the following rates and concentrations from **each turbine** during normal operations: **Pollutant** **lb/hr** **ppmdv** NO_x 1.21 2.0 CO 0.72 2.0 VOCs 0.62 $PM_{2.5}$ 1.08 Concentration (ppmdv) is corrected to 15% oxygen, dry basis. [R307-401-8]
II.B.5.a.1	**Initial Test** The owner/operator shall conduct an initial stack test on the emission unit within 180 days after startup of the emission unit. [R307-165-2]
II.B.5.a.2	**Compliance Demonstration** To demonstrate compliance with the emission limitations above, the owner/operator shall perform stack testing on each emissions unit according to the stack testing conditions contained in this AO. [R307-165-2, R307-401-8]
II.B.5.a.3	**Test Frequency** The owner/operator shall conduct a stack test on the emission unit within one (1) year after the date of the most recent stack test of the emission unit. The Director may require the owner/operator to perform a stack test at any time. [40 CFR 60 Subpart KKKK, R307-165-2, R307-401-8]

II.B.5.b	The owner/operator shall conduct any stack testing required by this AO according to the following conditions. [R307-401-8]
II.B.5.b.1	**Notification** 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]
II.B.5.b.2	**Testing & Test Conditions** 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]
II.B.5.b.3	**Access** 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]
II.B.5.b.4	**Reporting** 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]
II.B.5.b.5	**Possible Rejection of Test Results** 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]
II.B.5.c	**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.5.c.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.5.c.2	**$PM_{2.5}$** Total $PM_{2.5}$ = Filterable $PM_{2.5}$ + Condensable PM Filterable $PM_{2.5}$ 40 CFR 60, Appendix A, Method 5; 40 CFR 51, Appendix M, Method 201A or other EPA-approved testing method as acceptable to the Director. If other approved testing methods are used which cannot measure the $PM_{2.5}$ fraction of the filterable particulate emissions, all of the filterable particulate emissions shall be considered $PM_{2.5}$. 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.5.c.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.5.c.4	**VOCs** 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.5.c.5	**CO** 40 CFR 60, Appendix A, Method 10 or other EPA-approved testing method as acceptable to the Director. [R307-401-8]

PERMIT HISTORY

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

Replaces	AO DAQE-AN162210001-24 dated November 19, 2024
Incorporates	NOI dated June 25, 2025
Incorporates	DAQE-MN162210002-25 dated September 16, 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_2e	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