

Department of Environmental Quality

Kimberly D. Shelley Executive Director

DIVISION OF AIR QUALITY Bryce C. Bird Director

DAQE-IN160660003-24

November 13, 2024

Anthony Gustin Novva SLC Common, LLC. 6524 W. Old Bingham Highway West Jordan, UT 84081 s.gump@novva.com

Dear Gustin:

Re: Intent to Approve: Modification to Approval Order DAQE-AN160660001-22 to Install New

Power Generation Engines Project Number: N160660003

The attached document is the Intent to Approve (ITA) for the above-referenced project. The ITA is subject to public review. Any comments received shall be considered before an Approval Order (AO) is issued. The Division of Air Quality is authorized to charge a fee for reimbursement of the actual costs incurred in the issuance of an AO. An invoice will follow upon issuance of the final AO.

Future correspondence on this ITA should include the engineer's name, **John Jenks**, as well as the DAQE number as shown on the upper right-hand corner of this letter. John Jenks, can be reached at (385) 306-6510 or jjenks@utah.gov, if you have any questions.

Sincerely,

Jon Black (Nov 14, 2024 18:42 MST)

Jon L. Black, Manager New Source Review Section

XXX:xx:jg

cc: Salt Lake County Health Department

DJ Law

STATE OF UTAH Department of Environmental Quality Division of Air Quality

INTENT TO APPROVE DAQE-IN160660003-24 Modification to Approval Order DAQE-AN160660001-22 to Install New Power Generation Engines

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

Issued to Novva SLC Common, LLC.

Issued On November 13, 2024

Jon Black (Nov 14, 2024 18:42 MST)

New Source Review Section Manager Jon L. Black

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GENERAL INFORMATION

CONTACT/LOCATION INFORMATION

Source Name

Physical Address

UTM Coordinates

411,485 m Easting

Datum NAD83

4,491,982 m Northing

West Jordan, UT 84081

Novva SLC Common, LLC.

6524 W. Old Bingham Highway

Owner Name

Novva SLC Common, LLC.

Mailing Address

6524 W. Old Bingham Highway West Jordan, UT 84081

Source Contact

Name: Sophia Gump Phone: (210) 591-5485 Email: s.gump@novva.com

UTM Zone 12

SIC code 7376 (Computer Facilities Management Services)

SOURCE INFORMATION

General Description

Novva SLC Common, LLC. (Novva) operates a data center in Salt Lake County. The data center houses servers to store, manage, and disseminate data. The servers require both primary power and backup power contingencies to preserve services for customers in the case that local power is interrupted.

NSR Classification

Major Modification at Minor Source

Source Classification

Located in:

Northern Wasatch Front O3 NAA, Salt Lake City UT PM_{2.5} NAA, Salt Lake County SO₂ NAA Salt Lake County

Airs Source Size: A

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), JJJJ: Standards of Performance for Stationary Spark Ignition Internal

Combustion Engines

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

Project Description

Novva has requested to expand power generation at its existing West Jordan Data Center. The source is requesting to install 72 new natural gas-fired IC engines which will power generators providing primary power for the site's two new data center buildings. In addition, a second change was requested under a separate NOI submitted on May 30, 2024 which covered multiple updates in both the diesel-fired emergency engine generators and diesel storage tanks. The equipment list will be updated to reflect these changes in previously permitted equipment. This project will reclassify the source as a major CO and HAP source subject to Title V. The source will obtain emission reduction credits in the amount of 47 tpy of NO_x to satisfy the offset requirements of R307-403-5(1)(c). Finally, this project also includes updated modeling based on the equipment changes and some adjustments to stack heights.

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)
Ammonia		61.01
CO ₂ Equivalent	990854	997261.00
Carbon Monoxide	196.54	202.72
Nitrogen Oxides	43.87	51.28
Particulate Matter - PM ₁₀	30.42	30.87
Particulate Matter - PM _{2.5}	30.42	30.87
Sulfur Dioxide	15.22	15.26
Volatile Organic Compounds	46.75	48.28

Hazardous Air Pollutant	Change (lbs/yr)	Total (lbs/yr)
1,3-Butadiene (CAS #106990)	180	182
1-METHYLNAPHTHALENE (CAS #90120)	20	26
2,2,4-Trimethylpentane (CAS #540841)	180	180
Acetaldehyde (CAS #75070)	5700	5700
Acrolein (CAS #107028)	3500	3500
Benzene (Including Benzene From Gasoline) (CAS #71432)	229	300
Biphenyl (CAS #92524)	3620	3620
Ethyl Benzene (CAS #100414)	27	27
Formaldehyde (CAS #50000)	46360	46360
Generic HAPs (CAS #GHAPS)	258	280
Hexane (CAS #110543)	725	760
Methanol (CAS #67561)	1700	1700
Naphthalene (CAS #91203)	51	51
PAH, Total (CAS #234)	18	18
Styrene (CAS #100425)	16	16
Toluene (CAS #108883)	38	280
Xylenes (Isomers And Mixture) (CAS #1330207)	-430	120
	Change (TPY)	Total (TPY)
Total HAPs	31.10	31.56

PUBLIC NOTICE STATEMENT

The NOI for the above-referenced project has been evaluated and has been found to be consistent with the requirements of UAC R307. Air pollution producing sources and/or their air control facilities may not be constructed, installed, established, or modified prior to the issuance of an AO by the Director.

A 30-day public comment period will be held in accordance with UAC R307-401-7. A notification of the intent to approve will be published in the Salt Lake Tribune and Deseret News on November 17, 2024. During the public comment period the proposal and the evaluation of its impact on air quality will be available for the public to review and provide comment. If anyone so requests a public hearing within 15 days of publication, it will be held in accordance with UAC R307-401-7. The hearing will be held as close as practicable to the location of the source. Any comments received during the public comment period and the hearing will be evaluated. The proposed conditions of the AO may be changed as a result of the comments received.

SECTION I: GENERAL PROVISIONS

The intent is to issue an air quality AO authorizing the project with the following recommended conditions and that failure to comply with any of the conditions may constitute a violation of the AO.

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 five (5) years. [R307-401-8]
1.5	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

The intent is to issue an air quality AO authorizing the project with the following recommended conditions and that failure to comply with any of the conditions may constitute a violation of the AO.

II.A THE APPROVED EQUIPMENT

II.A.1	West Jordan Data Center
II.A.2	Natural Gas-Fired Generator Engines
	Seventy-two (72) Jenbacher Model: JGS 620 J715
	Rating: 3271.8 kW (4,601 hp)
	Control: SCR and Oxidation Catalyst
	NSPS/MACT Applicability: 40 CFR 60 Subpart JJJJ, 40 CFR 63 Subpart ZZZZ
II.A.3	Diesel-fired Emergency Generator Engines
	Seventeen (17) MTU 1500
	Rating: 1,736 kW (2,328 hp) each
	Model Year: 2019
	Fuel: Ultra-low Sulfur Diesel (ULSD) Control: SCR
	NSPS/MACT Applicability: 40 CFR 60 Subpart IIII, 40 CFR 63 Subpart ZZZZ
II.A.4	Diesel-fired Emergency Generator Engine
II.A.4	Cat C15 (Office)
	Rating: 568 kW (762 HP)
	Model Year: 2019
	Fuel: Ultra-low Sulfur Diesel (ULSD)
	Control: SCR
	NSPS/MACT Applicability: 40 CFR 60 Subpart IIII, 40 CFR 63 Subpart ZZZZ
II.A.5	Diesel-fired Emergency Generator Engines
	Eleven (11) Kohler (KD 2500)
	Rating: 2,700 kW (3,621 HP) each
	Model Year: 2019
	Fuel: Ultra-low Sulfur Diesel (ULSD)
	Control: SCR
	NSPS/MACT Applicability: 40 CFR 60 Subpart IIII, 40 CFR 63 Subpart ZZZZ
II.A.6	Diesel-fired Emergency Generator Engines
	Four (4) Cummins 2000
	Rating: 2,179 kW (2,922 HP) each
	Model Year: 2019
	Fuel: Ultra-low Sulfur Diesel (ULSD)
	Control: SCR
II A 7	NSPS/MACT Applicability: 40 CFR 60 Subpart IIII, 40 CFR 63 Subpart ZZZZ
II.A.7	Diesel-fired Emergency Generator Engines Two (2) MTU 1750
	Rating: 1,910 kW (2,561 HP) each
	Model Year: 2019
	Fuel: Ultra-low Sulfur Diesel (ULSD)
	Control: SCR
	NSPS/MACT Applicability: 40 CFR 60 Subpart IIII, 40 CFR 63 Subpart ZZZZ

II.A.8	Diesel-fired Emergency Generator Engines
	Two (2) MTU 2000
	Rating: 2,279 kW (3056 HP) each
	Model Year: 2019
	Fuel: Ultra-low Sulfur Diesel (ULSD)
	Control: SCR
	NSPS/MACT Applicability: 40 CFR 60 Subpart IIII, 40 CFR 63 Subpart ZZZZ
II.A.9	Eleven (11) Bulk Diesel Storage Tanks
	Contents: ULSD
	Capacity (gallons): 8,000
II.A.10	Four (4) Diesel Belly Tank
	Contents: ULSD
	Capacity (gallons): 3,650
II.A.11	Thirty-two (32) Diesel Day Tanks
	Contents: ULSD
	Capacity (gallons): 400
II.A.12	Boiler
	Rating: <5 MMBtu/hr
	Fuel: Natural Gas
	NSP/MACT Applicability: 40 CFR 63 Subpart DDDDD

SECTION II: SPECIAL PROVISIONS

The intent is to issue an air quality AO authorizing the project with the following recommended conditions and that failure to comply with any of the conditions may constitute a violation of the AO.

II.B REQUIREMENTS AND LIMITATIONS

II.B.1	Natural Gas Generator Engine Requirements
II.B.1.a	The owner/operator shall not emit more than the following from each natural gas-fired engine on site:
	A. NO _x : 0.0152 g/bhp-hr (0.15 lb/hr)
	B. CO: 0.065 g/bhp-hr (0.63 lb/hr)
	C. VOC: 0.00608 g/bhp-hr (0.06 lb/hr). [R307-401-8]
II.B.1.a.1	To demonstrate compliance with these emission rates, the owner/operator shall test each engine as per the requirements of 40 CFR 60 Subpart JJJJ. [40 CFR 60 Subpart JJJJ, R307-401-8]
II.B.1.b	The owner/operator shall combust only pipeline quality natural gas as fuel in each natural gas-fired engine. [R307-401-8]
II.B.1.c	The exhaust stack height for each natural gas-fired generator engine shall be no less than 29.9 feet (9.1 meters) as measured from the ground. [R307-401-8]
II.B.2	Emergency Generator Engine Requirements
II.B.2.a	The owner/operator shall not emit more than the following from each emergency engine on site:
	CAT C15: 0.83 lb/hr NOx
	Cummins 2000: 3.41 lb/hr NOx MTU 1500 Miratech: 3.33 lb/hr NOx
	MTU 1500 Milatecti. 3.33 lb/lii NOx MTU 1500 SafetyPower: 3.33 lb/hr NOx
	MTU 1750: 3.38 lb/hr NOx
	MTU 2000: 3.63 lb/hr NOx
	Kohler 2500: 6.67 lb/hr NOx. [R307-401-8]

rolling 12-month period during non-emergency situations. There is no time limit on the use in the engines during emergencies. [40 CFR 60 Subpart ZZZZ, R307-401-8] II.B.2.b.1 To determine compliance with a rolling 12-month total, the owner/operator shall calculate a 12-month total by the 20th day of each month using data from the previous 12 months. Record documenting the operation of each emergency engine shall be kept in a log and shall include 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 60 Subpart ZZZZ, R307-401-8] II.B.2.b.2 To determine the duration of operation, the owner/operator shall install a non-resettable hour meter for each emergency engine. [R307-401-8, 40 CFR 63 Subpart ZZZZ] III.B.2.c The owner/operator shall perform maintenance and testing of the emergency generator engin accordance with the following: A. The owner/operator shall not operate more than two (2) emergency generator engines at 0 time for maintenance and testing operations B. Each emergency generator shall only be tested between the hours of 7:00 a.m. and 7:00 p. [R307-401] III.B.2.c.1 The owner/operator shall: A. Record the date and time that the maintenance and testing was performed; B. Record the emergency generator engine that was maintained and tested; C. Maintain records of maintenance and testing. [R307-401-8] III.B.2.d The exhaust stack height for the CAT C15 (office) emergency generator engine shall be no let than 9.1 feet (2.8 meters) as measured from the ground. The exhaust stack height for all other emergency generator engines (except the CAT C15 emergency generator) shall be no less than 42 feet (12.8 meters) as measured from the ground [R307-401-8] III.B.2.e.1 The owner/operator shall only use diesel fuel (e.g. fuel oil #1, #2, or diesel fuel oil additives) fuel in each emergency engine. [R307-401-8] III.B.2.e.1 The owner/operator shall only combust diesel fuel that meets the definition in 40 CFR 1	II.B.2.a.1	To demonstrate compliance with the emission rate, the owner/operator shall test each engine as outlined in 40 CFR 60 Subpart IIII. [40 CFR 60 Subpart IIII, R307-401-8]
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B. The duration of operation in hours C. The reason for the emergency engine usage. [40 CFR 60 Subpart ZZZZ, R307-401-8] II.B.2.b.2 To determine the duration of operation, the owner/operator shall install a non-resettable hour meter for each emergency engine. [R307-401-8, 40 CFR 63 Subpart ZZZZ] II.B.2.c The owner/operator shall perform maintenance and testing of the emergency generator engine accordance with the following: A. The owner/operator shall not operate more than two (2) emergency generator engines at o time for maintenance and testing operations B. Each emergency generator shall only be tested between the hours of 7:00 a.m. and 7:00 p. [R307-410] II.B.2.c.1 The owner/operator shall: A. Record the date and time that the maintenance and testing was performed; B. Record the emergency generator engine that was maintained and tested; C. Maintain records of maintenance and testing. [R307-401-8] II.B.2.d The exhaust stack height for the CAT C15 (office) emergency generator engine shall be no letthan 9.1 feet (2.8 meters) as measured from the ground. The exhaust stack height for all other emergency generator engines (except the CAT C15 emergency generator) shall be no less than 42 feet (12.8 meters) as measured from the ground [R307-401-8] II.B.2.e.1 The owner/operator shall only use diesel fuel (e.g. fuel oil #1, #2, or diesel fuel oil additives) fuel in each emergency engine. [R307-401-8] II.B.2.e.2 The owner/operator shall only combust diesel fuel that meets the definition in 40 CFR 1090. of ultra-low sulfur diesel (ULSD), which has a sulfur content of 15 ppm or less. [R307-401-8] II.B.2.e.2 To demonstrate compliance with the ULSD fuel requirement, the owner/operator shall maint 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	II.B.2.b.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:
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ULSD requirements. [R307-401-8]	II.B.2.e.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]

PERMIT HISTORY

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

Is Derived From

Source Submitted NOI dated May 30, 2024 Additional Information Received dated May 30, 2024 Additional Information Received dated September 13, 2024 Additional Information Received dated November 14, 2024 DAQE-AN160660001-22 dated February 23, 2022 Incorporates Incorporates Incorporates Supersedes

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 CO₂ Carbon Dioxide

CO₂e 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

NAAOS 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

SO₂ 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