State of Washington Department of Ecology
Notice of Construction Approval Order

In the matter of approving a new air contaminant source for Intergate Quincy – Sabey Data Center Properties	))))	Approval Order No. Preliminary Determination AQPID No. A0250302

Project Summary

Intergate Quincy – Sabey Data Center Properties, herein referred to as the Permittee, is an existing data center located at 2200 M Street NE, Quincy, Washington, in Grant County.

The Permittee is classified as a Synthetic Minor 80 source for Nitrogen Oxides.

The project consists of expanding the number of permitted generators by 13, with all 13 proposed generators being allocated to Building E. The list of equipment for this approval order includes 109 diesel engines used to power emergency electrical generators. The 109 2.7 megawatt (MWe) or less generators will have a combined capacity of up to 248.1 MWe using a combination of Caterpillar, Cummins, MTU, and Kohler/Rehlko engines.

The Permittee's application provided Ecology with a combination of engine size ranges for the anticipated engines to be used, which will have ranges at or smaller than the following sizes:

Table 1: Emergency Engines Evaluated

Manufacturer	Model ID	Rated Capacity MWe (bhp)
Caterpillar	3516C	2.25 (3,283) to 2.5 (3,633)
Cummins	QSK60-G14	2.25 (3,239)
Cummins	QSK60-G26	2.5 (3,626)
Kohler/Rehlko	KD2250	2.5 (3,352)
Kohler/Rehlko	KD2500	2.7 (3,621)

A list of equipment for this facility is provided in Tables 2 and 3 below. Engine sizes listed in Tables 1 and 2 are in megawatt (MWe) units with the "e" indicating "electrical" based on generator power ratings listed on the engine specifications provided with the application.

Table 2: Emergency Engine and Generator Serial Numbers

Building	Unit ID	Manufacturer and Model No.	Capacity MWe (bhp)	Engine SN	Generator SN	Build Date
A	QABC	Caterpillar C9	0.2504 (401)	S9P00927	CAT000C9CNGP00380	2015
A	QA2-D	Caterpillar 3516C	2.0 (2,937)	SFJ00723	G7G01453	8/5/15
A	QA4-R	Caterpillar 3516C	2.0 (2,937)	SFJ00719	G1G01451	8/5/15

Building	Unit ID	Manufacturer and Model No.	Capacity MWe (bhp)	Engine SN	Generator SN	Build Date
A	QA1-A	Caterpillar 3516C	2.0 (2,937)	SFJ00796	G7G01592	2/11/16
A	QA1-B	Caterpillar 3516C	2.0 (2,937)	SFJ00795	G7G01591	2/11/16
A	QA1-C	Caterpillar 3516C	2.0 (2,937)	SFJ00789	G7G01595	2/11/16
A	QA4-B	Caterpillar 3516C	2.0 (2,937)	SFJ00895	G7G01722	7/21/16
A	QA2-C	Caterpillar 3516C	2.0 (2,937)	AFJ00853	G7G00219	4/14/17
A	A09	--	--	--	--	--
A	A10	--	--	--	--	--
A	A11	--	--	--	--	--
B	QBC	Caterpillar C9	0.30 (480)	S9P02055	CAT000C9KNTX00648	2019
B	QB1-A	Caterpillar 3516C	2.0 (2,937)	LY500238	G2D00234	5/4/2019
B	QB1-B	Caterpillar 3516C	2.0 (2,937)	LY500239	G2D00235	5/4/2019
B	QB1-R	Caterpillar 3516C	2.0 (2,937)	LY500240	G2D00237	4/26/2019
B	QB2-A	Caterpillar 3516C	2.0 (2,937)	LY500241	G2D00236	5/4/2019
B	QB2-B	Caterpillar 3516C	2.0 (2,937)	LY500242	G2D00239	5/5/2019
B	QB2-R	Caterpillar 3516C	2.0 (2,937)	LY500243	G2D00244	5/8/2019
B	QB3-C	Caterpillar 3516C	2.0 (2,937)	LY500244	G2D00243	5/8/2019
B	QB3-D	Caterpillar 3516C	2.0 (2,937)	LY500246	G2D00242	5/8/2019
B	QB3-E	Caterpillar 3516C	2.0 (2,937)	LY500247	G2D00240	5/10/2019
B	QB4-C	Caterpillar 3516C	2.0 (2,937)	LY500248	G2D00241	5/9/2019
B	QB4-D	Caterpillar 3516C	2.0 (2,937)	SBJ02146	G1Z00226	8/5/2017
B	QB4-E	Caterpillar 3516C	2.0 (2,937)	SBJ02147	G1Z00227	7/31/2017

Building	Unit ID	Manufacturer and Model No.	Capacity MWe (bhp)	Engine SN	Generator SN	Build Date
C	IGQ	Caterpillar C9	0.22 (352)	S9C03885	G5A05022	2011
C	QC3-A	Caterpillar 3512C	1.5 (2,206)	EBG00972	G5Y00653	7/22/2011
C	QC3-B	Caterpillar 3512C	1.5 (2,206)	EBG00975	G5Y00652	7/22/2011
C	QC3-C	Caterpillar 3512C	1.5 (2,206)	EBG00973	G5Y00654	7/22/2011
C	QC1-A	Caterpillar 3516C	2.0 (2,935)	DD600363	G7F00178	11/24/2013
C	QC1-B	Caterpillar 3516C	2.0 (2,935)	DD600364	G7F00177	11/22/2013
C	QC4-A	Caterpillar 3512C	1.5 (2,206)	CT200132	G2N00529	3/5/2014
C	QC4-B	Caterpillar 3512C	1.5 (2,206)	CT200134	G2N00532	3/7/2014
C	QC4-C	Caterpillar 3512C	1.5 (2,206)	CT200133	G2N00531	3/5/2014
C	QC2-A	Caterpillar 3516C	2.0 (2,935)	DD600488	G7F00188	7/9/2014
C	QC2-B	Caterpillar 3516C	2.0 (2,935)	DD600490	G7F00187	7/9/2014
C	C11	--	--	--	--	--
C	C12	--	--	--	--	--
D	House	Caterpillar C9 C300 GC	300 kW	S9P03318	MFE005400	[insert date]
D	QD4-E	Kohler KD2250	2.25 (2,250)	2021730031	333GGMNK0011	2/1/2021
D	QD4-D	Kohler KD2250	2.25 (2,250)	2020730174	333GGMNK0012	8/1/2020
D	QD2-C	Kohler KD2250	2.25 (2,250)	2021730062	333GGMNK0014	3/1/2021
D	QD2-B	Kohler KD2250	2.25 (2,250)	2022730221	333GGMNK0015	10/1/2020
D	QD4-R	Kohler KD2250	2.25 (2,250)	2020730209	333GGMNK0016	10/1/2020
D	QD2-A	Kohler KD2250	2.25 (2,250)	2022730060	333GGMNK0018	3/1/2022

Building	Unit ID	Manufacturer and Model No.	Capacity MWe (bhp)	Engine SN	Generator SN	Build Date
D	QD6-D	Cummins DQKAF	2.25 (2,250)	62374-275	A230193719	11/21/2022
D	QD6-R	Cummins DQKAF	2.25 (2,250)	62374-279	A230195536	11/22/2022
D	QD5-A	Cummins DQKAF	2.25 (2,250)	62374-278	A230196840	11/22/2022
D	QD1-B	Cummins DQKAF	2.25 (2,250)	62374-289	G230244203	3/14/2023
D	QD6-E	Cummins DQKAF	2.25 (2,250)	62374-280	A230197938	11/22/2022
D	QD5-B	Cummins DQKAF	2.25 (2,250)	62374-277	A230198946	11/22/2022
D	QD5-C	Cummins DQKAF	2.25 (2,250)	62374-274	A230199300	11/14/2022
D	QD3-D	Cummins DQKAF	2.25 (2,250)	62374-288	F230238151	3/14/2023
D	QD3-E	Cummins DQKAF	2.25 (2,250)	62374-286	F230238152	2/27/2023
D	QD3-R	Cummins DQKAF	2.25 (2,250)	62374-287	F230238150	3/13/2023
D	QD1-A	Cummins DQKAF	2.25 (2,250)	62374-291	G230244186	4/11/2023
D	QD1-C	Cummins DQKAF	2.25 (2,250)	62374-290	G230244183	3/15/2023
E	QBEC	Cummins DQKAF	1.0 (1000)	37286077	B220043500	12/1/2021
E	QE2-A	Cummins DQKAF	2.25 (2,250)	62374-272	E220076740	1/28/2022
E	QE2-B	Cummins DQKAF	2.25 (2,250)	62374-269	E220076758	1/26/2022
E	QE2-C	Cummins DQKAF	2.25 (2,250)	62374-270	E220076739	1/27/2022
E	QE2-D	Cummins DQKAF	2.25 (2,250)	62374-271	E220076735	1/27/2022
E	QE2-E	Cummins DQKAF	2.25 (2,250)	62374-268	E220076741	1/26/2022
E	E06	--	--	--	--	--
E	E07	--	--	--	--	--
E	E08	--	--	--	--	--

Building	Unit ID	Manufacturer and Model No.	Capacity MWe (bhp)	Engine SN	Generator SN	Build Date
E	E09	--	--	--	--	--
E	E10	--	--	--	--	--
E	E11	--	--	--	--	--
E	E12	--	--	--	--	--
E	E13	--	--	--	--	--
E	E14	--	--	--	--	--
E	E15	--	--	--	--	--
E	E16	--	--	--	--	--
E	E17	--	--	--	--	--
E	E18	--	--	--	--	--
E	E19	--	--	--	--	--
E	E20	--	--	--	--	--
E	E21	--	--	--	--	--
E	E22	--	--	--	--	--
E	E23	--	--	--	--	--
E	E24	--	--	--	--	--
E	E25	--	--	--	--	--
E	E26	--	--	--	--	--
E	E27	--	--	--	--	--
E	E28	--	--	--	--	--
E	E29	--	--	--	--	--
E	E30	--	--	--	--	--
E	E31	--	--	--	--	--
E	E32	--	--	--	--	--
E	E33	--	--	--	--	--
E	E34	--	--	--	--	--
E	E35	--	--	--	--	--
E	E36	--	--	--	--	--
E	E37	--	--	--	--	--
E	E38	--	--	--	--	--
E	E39	--	--	--	--	--
E	E40	--	--	--	--	--
E	E41	--	--	--	--	--
E	E42	--	--	--	--	--
E	E43	--	--	--	--	--
E	E44	--	--	--	--	--
E	E45	--	--	--	--	--
E	E46	--	--	--	--	--
E	E47	--	--	--	--	--

Building	Unit ID	Manufacturer and Model No.	Capacity MWe (bhp)	Engine SN	Generator SN	Build Date
E	E48	--	--	--	--	--
E	E49	--	--	--	--	--
E	E50	--	--	--	--	--
E	E51	--	--	--	--	--
E	E52	--	--	--	--	--

This approval order also includes 148 Munters Model PV-W35-PVT and 132 Munters Oasis Standard with indirect evaporative cooling units (or equivalent) to dissipate heat from electronic equipment at the facility. Cooling unit information is provided in Table 3.

Table 3: Cooling Units

Cooling Unit Model	Number of Fans per Cooling Unit	Number of Cooling Units per engine	Total Number Cooling Units
Munters Model PV-W35-PVT	3	4	148
Munters Oasis Standard with indirect evaporative cooling units	3	4	132

Legal Authority

The emissions from the proposed project have been reviewed under the legal authority of RCW 70A.15.2210 and the applicable rules and regulations adopted thereunder. The proposed project, if operated as specified, will be in accordance with applicable rules and regulations, as set forth in Chapters 173-400 WAC and 173-460 WAC and the operation thereof, at the location proposed, will not result in ambient air quality standards being exceeded.

This Notice of Construction (NOC) Approval Order rescinds and replaces NOC Approval Order No. 22AQ-E016. NOC Approval Order No. 22AQ-E016 is no longer in effect.

Therefore, it is ordered that the project as described in the NOC application and more specifically detailed in plans, specifications, and other information submitted to the Washington State Department of Ecology (Ecology) is approved for construction and operation, provided the following conditions are satisfied:

Approval Conditions

1. Administrative Condition

a. The Permittee will provide Quincy School District administrators with the facility telephone number and a 24-hour contact number for a manager. The Permittee will notify the school whenever Ecology-approved changes occur in the maintenance

testing schedule. As decided by the school administrators and the Permittee, an ongoing relationship must be established to facilitate future communications.

b. The Permittee must make available information on diesel engine exhaust health risks and emergency generator operations to existing residents and commercial and industrial facilities within 0.25 miles of Sabey property boundaries. Information on diesel exhaust health risks and emergency generator operations must be provided to the City of Quincy Building and Planning Department for distribution to new homeowners and businesses that locate on undeveloped parcels within 0.25 miles of the Sabey property boundary. The health risk information may be, or should be similar to, Ecology Focus on Diesel Exhaust Health Risks dated February 2011, Publication Number 11-02-005. A copy of the materials to be used to comply with this condition must be provided to Ecology for review and distributed prior to starting Phase 1 operations.

2. Equipment Restrictions

a. Any engine used to power the electrical generators must be operated in accordance with applicable 40 C.F.R. Part 60, Subpart IIII requirements including but not limited to: certification by the manufacturer to meet the 40 C.F.R. Part 89 EPA Tier 2 or Tier 3 (when less than 560 kWm, 751 hp) emissions levels as required by 40 C.F.R. 60.4202; and installed and operated as emergency engines, as defined in 40 C.F.R. 60.4219.

   i. At the time of the effective date of this permit, Tier 4 interim and Tier 4 final certified engines (as specified in 40 C.F.R. 1039.102 Table 7 and 40 C.F.R. 1039.101 Table 1, respectively), are not required for 1.5 to 2.7 MWe electrical generators used for emergency purposes as defined in 40 C.F.R. 60.4219 in attainment areas in Washington State. However, any engines installed at the facility after Tier 4 or other limits are implemented by EPA for emergency generators, must meet the applicable specifications as required by EPA at the time the emergency engines are installed.

b. The only engines and electrical generating units approved for operation are those listed by serial number in Table 2 of this permit, which must have equal or less emissions than the engine/generator models specified in the equipment section of this permit.

c. The installation of any new or replacement engines 18 months after issuance of this Approval Order will require notification to Ecology that includes engine manufacturer's specification sheets. Ecology will decide whether new source review is required based on various factors including whether the new or replacement engines will have either an increased emission rate or result in an emission concentration that may increase community impacts over those evaluated for this Approval Order, or if an update to the current BACT analysis is necessary.

d. All 109 engines must meet the exhaust stack parameters such as diameter, height listed in Table 4, and exhaust rate and velocity, so they do not result in community emissions impacts greater than what was evaluated for this project.

Table 4: Engine Exhaust Stack Dimension Requirements

Building	Quantity	Engine Size	Minimum Stack Height (feet)	Maximum Stack Diameter (inches)
A, B, C	34	1.5 to 2.0 MWe	48’	16”
A, B, C	3	0.22 to 0.30 MWe	9.33’	4”
D, E	70	1.5 to 2.7 MWe	60’	18”
D	1	0.30 MWe	12’	6”
E	1	1.0 MWe	12’	12”

e. This Order only applies to the 109 engines, each with a rated full standby capacity of up to 2.7 MWe, which are consistent with the engines evaluated in the Notice of Construction application and second tier review. New source review will not be required for engines with a rated full standby capacity of less than or equal to 2.7 MWe that comply with the engine certification requirements contained in Conditions 2.a and 5 unless there is an increase in community emission impacts. On a case-by-case basis, Ecology may require additional ambient impacts analyses prior to installation of smaller engines.

f. In addition to meeting EPA Tier 2 or 3 (for 300 kW engines) certification requirements, the source must have written verification from the engine manufacturer that each engine of the same make, model, and rated capacity installed at the facility uses the same electronic Programmable System Parameters, i.e., configuration parameters, in the electronic engine control unit.

3. Operating Limitations

a. Fuel consumption must be limited to a total of 550,616 gallons per year of diesel fuel equivalent to ultra-low sulfur specification No. 2 distillate fuel oil (less than or equal to 0.00150 weight percent sulfur). Total annual fuel consumption by the facility must be averaged over a 12-month period using monthly rolling totals.

b. The 37 engines located in buildings A, B, and C are restricted to the annual limit of 57.5 hours per engine averaged over a 12-month period using monthly rolling totals and averaged over all generators in service.

c. The 19 engines located in building D are restricted to the annual limit of 29 hours per engine averaged over a 12-month period using monthly rolling totals and averaged over all generators in service.

d. The 53 engines located in building E are restricted to the annual limit of 25 hours per engine averaged over a 12-month period using monthly rolling totals and averaged over all generators in service.

e. A load bank will be used for electrical energy dissipation whenever prescheduled monthly maintenance testing, corrective testing, or annual load bank testing occurs above zero electrical load.

f. The 109 engines require periodic scheduled operation. Non-emergency operations must be limited to between 7:00 AM and 7:00 PM.

g. All of the cooling units must comply with the following conditions:

i. Each individual cooling unit must use a mist eliminator with a maximum drift rate of 0.001 percent of the circulating water flow rate. The drift rate must be guaranteed by the unit manufacturer.

ii. Chemicals containing hexavalent chromium cannot be used to pre-treat the cooling unit makeup water.

4. General Testing and Maintenance Requirements

a. The Permittee will follow engine-manufacturer's recommended diagnostic testing and maintenance procedures to ensure that each engine (larger than 500 hp, 373 kW) will conform to Condition 5 emission limits and Tier 2 emission specifications as listed in 40 C.F.R. 89 throughout the life of each engine.

b. The Permittee must measure emissions of particulate matter (PM), volatile organic compounds (VOC), nitric oxide (NO), nitrogen dioxide (NO_2), and carbon monoxide (CO) from engine exhaust stacks in accordance with Approval Condition 4.c. This testing will serve to demonstrate compliance with the g/kWm-hr emission limits contained in Section 5, and as an indicator of proper operation of the engines. The selection of the engines(s) to be tested must be in accordance with Conditions 4.b.i, 4.b.ii and 4.b.iii and must be defined in a source test protocol submitted to Ecology no less than 30 days in advance of any compliance-related stack sampling conducted. Additional testing as described in 40 C.F.R. 60.8 (g) may be required by Ecology at their discretion.

i. For new engines, at least one representative engine (greater than 500 hp, 373kW) from each manufacturer and each size engine from each manufacturer must be tested as soon as possible after commissioning and before it becomes operational.

ii. Every 60 months after the first testing performed in Condition 4.b.i, the Permittee must test at least one engine (greater than 500 hp, 373 kW) from each manufacturer and each size engine from each manufacturer, including the engine with the most operating hours as long as it is a different engine from that which was tested during the previous 60-month interval testing.

iii. The testing protocol must include the following information:

A. The location and unit ID of the equipment proposed to be tested.

B. The operating parameters to be monitored during the test.

C. A description of the source including manufacturer, model number, design capacity of the equipment and the location of the sample ports or test locations.

D. Time and date of the test and identification and qualifications of the personnel involved.

E. A description of the test methods or procedures to be used.

c. The following procedure must be used for each test for the engines as required by Condition 4.b unless an alternate method is proposed by the Permittee and approved in writing by Ecology prior to the test.

i. Periodic emissions testing should be combined with other pre-scheduled maintenance testing and annual load bank engine testing.

ii. PM (filterable fraction only), VOC, NO, NO_2, and CO emissions measurement must be conducted at five individual engine loads of 100 percent 75 percent, 50 percent, 25 percent, and 10 percent using weighting factor averaging according to Table 2 of Appendix B to Subpart E of 40 C.F.R. Part 89.

iii. EPA Reference Methods and test procedures from 40 C.F.R. Part 60, 40 C.F.R. Part 51, and/or 40 C.F.R. Part 89 as appropriate for each pollutant must be used including Method 5 or 40 C.F.R. Part 1065 for PM. A test plan will be submitted for Ecology approval at least 30 days before any testing is conducted and must include the criteria used to select the engine for testing, as well as any modifications to the standard test procedure contained in the above references.

iv. The F-factor method, as described in EPA Method 19, may be used to calculate exhaust flow rate through the exhaust stack. The fuel meter data, as measured according to Condition 4.e, must be included in the test report, along with the emissions calculations.

v. In the event that any source test shows non-compliance with the emission limits in Condition 5, the Permittee must repair or replace the engine and repeat the test on the same engine plus two additional engines of the same make and model as the engine showing non-compliance. Test reports must be submitted to Ecology as provided in Condition 9.f of this Order.

d. Each engine must be equipped with a properly installed and maintained non-resettable meter that records total operating hours.

e. Each engine must be connected to a properly installed and maintained fuel flow monitoring system (either certified physical or generator manufacturer provided software) that records the amount of fuel consumed by that engine during operation.

5. Emission Limits

a. Engines larger than 560 kW (751 hp) in this Order must meet the emission rate limitations contained in Table 5. The emission limit for particulate matter in Table 6 applies in the event that the Permittee optionally installs Kohler engines with diesel particulate filters. Unless otherwise approved by Ecology in writing, compliance with emission limits for those pollutants that are required to be tested under Conditions 4.b and 4.c must be based on emissions test data as determined according to those approval conditions.

b. To demonstrate compliance with 40 C.F.R. 89.112 and 89.113 g/kW-hr weighted average emission limits through stack testing, the Permittee must conduct exhaust stack testing as described in Conditions 4.b and 4.c according to Table 2 of Appendix B to Subpart E of 40 C.F.R. Part 89, or any other applicable EPA requirement in effect at the time the engines are installed.

Table 5: Emission Limits and Testing Requirements for Engines

Pollutant	Load Test	Test Method*	Emission Limits
PM	Five-load weighted avg.	EPA Method 5, or 40 C.F.R. Part 1065	0.2 g/kWm-hr
NOx + NMHC/VOC	Five-load weighted avg.	EPA Method 7E, or 40 C.F.R. Part 1065	6.4 g/kWm-hr
CO	Five-load weighted avg.	EPA Method 10, or 40 C.F.R. Part 1065	3.5 g/kWm-hr

*in lieu of these requirements, the Permittee may propose an alternative test protocol to Ecology in writing for approval.

Table 6: PM Limit and Testing Requirements for Engines with Diesel Particulate Filters

Pollutant	Load Test	Test Method*	Emission Limits
PM	Five-load weighted avg.	EPA Method 5, or 40 C.F.R. Part 1065	0.05 g/kWm-hr

*in lieu of these requirements, the Permittee may propose an alternative test protocol to Ecology in writing for approval.

c. Total annual facility-wide emissions must not exceed the 12-month rolling average emissions for PM_{10}, $PM_{2.5}$, CO, NOx, VOC, SO_2, DEEP, and NO_2 as listed in Table 7.

Table 7: Criteria Pollutant and Toxic Air Pollutant Emission Limits for Total Facility Sabey Intergate Quincy Buildings A, B, C, D, and E (Tons/Year)

Pollutant	Annual Emissions
PM smaller than 10 microns in diameter (PM_{10})	12.16
PM smaller than 2.5 microns in diameter ($PM_{2.5}$)*	12.16

Pollutant	Annual Emissions
Carbon monoxide (CO)	12.50
Nitrogen oxides (NOx)	95.10
Volatile organic compound (VOC)	8.36
Sulfur dioxide (SO_2)	0.16
Diesel Engine Exhaust Particulate (DEEP)*	1.713
DEEP from Buildings A, B, and C	0.550
DEEP from Buildings D and E	1.163
Nitrogen Dioxide (NO_2)**	10.13

*All PM emissions from the generator engines are $PM_{2.5}$, and all filterable $PM_{2.5}$ from the generator engines is considered Diesel Engine Exhaust Particulate (DEEP).

**NO_2 is assumed to be equal to 10 percent of the total NOx emitted.

d. Visual emissions from each diesel electric generator exhaust stack must be no more than ten percent, with the exception of a two-minute period after unit start-up. Visual emissions must be measured by using the procedures contained in 40 C.F.R. Part 60, Appendix A, Method 9.

6. Operation and Maintenance (O&M) Manuals

a. A site-specific O&M manual for equipment must be developed and followed. Manufacturer's operating instructions and design specifications for the engines, generators, and associated equipment must be included in the manual. The O&M manual must include the manufacturer's recommended protocols for extended low-load operation, if any. The O&M manual must be updated to reflect any modifications of the equipment or its operating procedures. Emissions that result from failure to follow the operating procedures contained in the O&M manual or manufacturer's operating instructions may be considered proof that the equipment was not properly installed, operated, and/or maintained. The O&M manual for the diesel engines, engine exhaust control equipment, cooling towers, fluid coolers, and associated equipment must at a minimum include:

i. Manufacturer's testing and maintenance procedures that will ensure that each individual engine (and engine exhaust control equipment) will conform to the EPA Tier Emission Standards appropriate for that engine (and engine exhaust control equipment) throughout the life of the engine (and engine exhaust control equipment).

ii. Normal operating parameters and design specifications.

iii. Operating maintenance schedule.

iv. Specification sheet for cooling towers and fluid coolers verifying 0.001 percent drift rating, water flow, airflow, makeup water rate, and documentation that

hexavalent chromium isn't included in products used to pre-treat the cooling tower and fluid cooler makeup water.

7. Submittals

a. All notifications, plans, reports, and other submittals must be submitted in a manner approved by Ecology. Submittals must be sent to:

Washington State Department of Ecology
Air Quality Program
4601 N. Monroe Street
Spokane, WA 99205-1295

Reports may be submitted electronically to ecyaqciero@ecy.wa.gov

OR AS DIRECTED.

8. Recordkeeping

a. All records, O&M manual, and procedures developed under this Order must be organized in a readily accessible manner and cover a minimum of the most recent 60-month period except as required for stack testing in Condition 4. Any records required to be kept under the provisions of this Order must be provided within 30 days to Ecology upon request. The following records are required to be collected and maintained.

i. Fuel receipts with amount of diesel and sulfur content for each delivery to the facility.

ii. Monthly and annual fuel usage.

iii. Monthly and annual hours of operation for each diesel engine. The cumulative hours of operation for each engine must be maintained for the life of the engine, and must include which engines have been stack tested, and the report information from Condition 9.f.

iv. Purpose, electrical load and duration of runtime for each diesel engine period of operation.

v. Annual gross power generated by each independent building quadrant at the facility, and total annual gross power for the facility.

vi. Upset condition log for each engine and generator that includes date, time, duration of upset, cause, and corrective action.

vii. Any recordkeeping required by 40 C.F.R. Part 60 Subpart IIII.

viii. Air quality complaints received from the public or other entity, and the affected emissions units.

9. Reporting

a. The serial number, manufacturer make and model, standby capacity, and date of manufacture must be submitted to Ecology prior to installation for each engine and generator.

b. The following information will be submitted to Ecology at the address in Condition 7 by January 31 of each calendar year. This information may be submitted with annual emissions information requested by Ecology's Air Quality Program (AQP).

   i. Monthly and 12-month rolling annual total summary of fuel usage compared to Condition 3.a.

   ii. Monthly and 12-month rolling annual total summary of the air contaminant emissions for pollutants above the WAC 173-400-110(5) and WAC 173-460-150 de minimis levels.

   iii. Monthly and 12-month rolling hours of operation with annual rolling total.

   iv. Monthly and 12-month rolling gross power generation with annual total as specified in Condition 8.a.v.

   v. A listing of each start-up of each diesel engine that shows the purpose, fuel usage, and duration of each period of operation.

c. Any air quality complaints resulting from operation of the emissions units or activities must be promptly assessed and addressed. A record must be maintained by each tenant of the action taken to investigate the validity of the complaint and what, if any, corrective action was taken in response to the complaint. Ecology must be notified within three days of receipt of any such complaint.

d. The Permittee must notify Ecology by e-mail or in writing within 24 hours of any engine operation of greater than 60 minutes if such engine operation occurs as the result of a power outage or other unscheduled operation. This notification does not alleviate the Permittee from annual reporting of operations contained in any section of Condition 9.

e. Stack test reports of any engine must be submitted to Ecology within 60 days of completion of the test and must include, at a minimum, the following information:

   i. Location, unit ID, manufacturer and model number of the engine(s) tested, including the location of the sample ports.

   ii. A summary of test methods, results (reported in units and averaging periods consistent with the applicable emission standard or limit), field and analytical laboratory data, quality assurance/quality control procedures and documentation.

   iii. A summary of operating parameters for the diesel engines being tested.

   iv. Engine electronic operational data during testing.

v. Copies of field data and example calculations.

vi. Chain of custody information.

vii. Calibration documentation.

viii. Discussion of any abnormalities associated with the results.

ix. A statement signed by the senior management official of the testing firm certifying the validity of the source test report.

f. The Permittee must notify Ecology within 30 days of the following events:

i. Commencement of construction of the project.

ii. Completion of the construction of the project.

iii. If construction or operation has been discontinued for more than 18 months.

g. The Permittee must notify Ecology within 60 days (or longer as approved by Ecology) of the following events:

i. Changes in operation contrary to information submitted in the NOC application.

ii. Discontinued operations. This notification must include a shutdown status maintenance plan containing the following information, at a minimum:

A. Maintenance that will be performed during the shutdown to allow startup in a timely manner with minimum amount of work and emissions, (allowable emission levels as of the date of shutdown cannot increase upon reopening).

iii. Reactivating the facility following discontinued operations of 18 months or more. This notification must include a start-up plan containing the following information, at a minimum:

A. Documentation that the shutdown maintenance was performed during shutdown to allow startup in a timely manner with minimum amount of work and emissions (allowable emissions levels as of the date of shutdown cannot increase upon reopening).

B. Documentation of testing performed which demonstrates that units are still able to meet the parameters of this approval order after being inactive, or other documentation which demonstrates why testing is not necessary.

10. General Conditions

a. **Activities Inconsistent with this Order** - Any activity undertaken by the Permittee, or others, in a manner that is inconsistent with the data and specifications submitted as part of the NOC application or this NOC Approval Order, must be subject to Ecology enforcement under applicable regulations.

b. **Availability of Order** - Legible copies of this NOC Approval Order and any O&M manual(s) must be available to employees in direct operation of the equipment

described in the NOC application and must be available for review upon request by Ecology.

c. **Compliance Assurance Access** - Access to the source by representatives of Ecology or the United States Environmental Protection Agency (EPA) must be permitted upon request. Failure to allow access is grounds for enforcement action under the federal Clean Air Act or the Washington State Clean Air Act and may result in revocation of this NOC Approval Order.

d. **Discontinuing Construction** - Approval to construct or modify a stationary source becomes invalid if construction is not commenced within eighteen months after receipt of the approval, or if construction is discontinued for a period of eighteen months or more. The permitting authority may extend the 18-month period upon a satisfactory showing by the Permittee that an extension is justified.

e. **Equipment Operation** - Operation of the facility must be conducted in compliance with all data and specifications submitted as part of the NOC application and in accordance with O&M manuals, unless otherwise approved in writing by Ecology.

f. **Registration** - Periodic emissions inventory and other information may be requested by Ecology as part of Registration Program requirements listed in WAC 173-400-099 through 173-400-105. The requested information must be submitted within 30 days of receiving the request, unless otherwise specified. All fees must be paid by the date specified.

g. **Testing** - When information obtained by Ecology indicates the need to quantify emissions, Ecology may require the Permittee to conduct material analysis or air emission testing under WAC 173-400-105. This testing requirement is in addition to any testing required by Ecology in this Order, other permits, or other state or federal requirements.

h. **Violation Duration** - If the Permittee violates an approval condition in this NOC Approval Order, testing, recordkeeping, monitoring, or credible evidence will be used to establish the starting date of the violation. The violation is presumed to continue until testing, recordkeeping, monitoring, or other credible evidence indicates compliance. A violation of an approval condition includes, but is not limited to, failure of air pollution control equipment, failure of other equipment resulting in increased emissions, or a failed source test indicating an exceedance of an emission limit.

i. **Obligations Under Other Laws or Regulations** - Nothing in this NOC Approval Order must be construed so as to relieve the Permittee of its obligations under any state, local, or federal laws or regulations.

j. **Maintaining Compliance** - It must not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the operations in order to maintain compliance with the conditions of this NOC Approval Order.

k. **Visible Emissions** - No visible emissions from the source are allowed beyond the property line, as determined by 40 C.F.R. Part 60, Appendix A, Test Method 22.

l. **Changes in Operations** - Changes in operation, discontinued operation, or inadequate maintenance plans or re-start plans (see "Reporting" requirements), may require a new or amended NOC Approval Order.

Authorization may be modified, suspended, or revoked in whole or part for cause, including, but not limited to, the following:

- Violation of any terms or conditions of this authorization.
- Obtaining this authorization by misrepresentation or failure to disclose all relevant facts.

The provisions of this authorization are severable and, if any provision of this authorization or application of any provision to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this authorization, must not be affected thereby.

Your Right to Appeal

You have a right to appeal this NOC Approval Order to the Pollution Control Hearings Board (PCHB) within 30 days of the date of receipt. The appeal process is governed by RCW 43.21B and WAC 371-08. "Date of receipt" is defined in Chapter 43.21B.001(2) RCW.

To appeal, you must do all of the following within 30 days of the date of receipt of this Order:

- File your notice of appeal and a copy of this NOC Approval Order with the PCHB (see filing information below). "Filing" means actual receipt by the PCHB during regular business hours as defined in Chapter 371-08-305 WAC and -335. "Notice of appeal" is defined in Chapter 371-08-340 WAC.
- Serve a copy of your notice of appeal and this NOC Approval Order on the Department of Ecology by mail, in person, or by email (see addresses below).

You must also comply with other applicable requirements in Chapter 43.21B RCW and 371-08 WAC.

Address and Location Information

Filing with the PCHB

For the most current information regarding filing with the PCHB, visit: https://eluho.wa.gov/ or call: 360-664-9160.

Service on Ecology

Street Address:

Department of Ecology
Attn: Appeals Processing Desk
300 Desmond Drive SE
Lacey, WA 98503

Mailing Address:

Department of Ecology
Attn: Appeals Processing Desk
PO Box 47608
Olympia, WA 98504-7608

Email Address:

ecologyappeals@ecy.wa.gov

Americans with Disabilities Act Information

Accommodation Requests

To request ADA accommodation including materials in a format for the visually impaired, call Ecology at 360-407-7668 or visit https://ecology.wa.gov/accessibility. People with impaired hearing may call Washington Relay Service at 711. People with speech disability may call TTY at 877-833-6341.

Dated on Month XX, 2025.

Prepared by:

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David Finley, PE
Air Quality Program
Department of Ecology
State of Washington

Approved by:

_____
Karin Baldwin, Section Manager
Air Quality Program
Department of Ecology
State of Washington