

## AIR QUALITY SYNTHETIC MINOR SOURCE PERMIT TO CONSTRUCT

**Permit No.:** AAIR16-0082

**Permit Issuance:** June 13, 2025

**Permit Issued To:** Apple, Inc.  
**Physical Address:** 21505 Reno Technology Parkway, Sparks, NV 89442  
**Mailing Address:** One Apple Park Way, MS 319-5EHS, Cupertino, CA 95014  
**Billing Address:** One Apple Park Way, MS 319-5EHS, Cupertino, CA 95014  
**Responsible Official:** Pankaj Garg, Environmental Program Manager – Global Data Centers **Phone:** (408) 775-4639

### Permit to Construct Expiration:

The Permit to Construct (PTC) expires and is invalid (DBOH 030.020 A.6):

1. If the permittee does not commence construction within eighteen (18) months of the PTC date of issuance;
2. If the permittee commences construction and then ceases construction for a period of eighteen (18) months or longer.
3. Upon the issuance of a PTO.

### Facility Description:

Apple, Inc. is a data center located in Hydrographic Area 083. This source category falls under Standard Industry Classification (SIC) code 7374, "Computer Processing and Data Preparation and Processing Services" and North American Industrial Classification System (NAICS) code 518210, "Computing Infrastructure Providers, Data Processing, Web Hosting, and Related Services".

### Allowable Emissions:

The following quantities of emissions are the facility's allowable emissions based upon the source's potential to emit, as determined by the physical and operational design of the equipment and any practically enforceable permit conditions that limit the emissions of the source based on use of emissions control equipment, controlled operating rates, hours of operation, or other emissions control methods. The following quantities are used to determine annual permit maintenance fees and are enforceable emissions limits:

1. The discharge of PM<sub>10</sub> to the atmosphere shall not exceed 1.71 tons per 12-month rolling period.
2. The discharge of PM<sub>2.5</sub> to the atmosphere shall not exceed 1.71 tons per 12-month rolling period.
3. The discharge of sulfur dioxide to the atmosphere shall not exceed 0.68 tons per 12-month rolling period.
4. The discharge of nitrous oxides to the atmosphere shall not exceed 95.0 tons per 12-month rolling period.
5. The discharge of carbon monoxide to the atmosphere shall not exceed 18.27 tons per 12-month rolling period.
6. The discharge of volatile organic compounds to the atmosphere shall not exceed 2.18 tons per 12-month rolling period.

7. The discharge of total Hazardous Air Pollutants to the atmosphere shall not exceed 1.75 tons per 12-month rolling period.

**Facility Emissions Unit List:**

**System A – Emergency Power Generation, Group RMR01**

- ENG001-ENG004: MTU 16V4000 G43 2,000 kW Engines

**System B – Emergency Power Generation, Group RMR02**

- B.001-B.012: Cummins 2750DQLF 2,750 kW Engines
- CT.001, CT.004, CT.007, CT.010, CT.013, CT.016, CT.019, CT.022, CT.025, CT.028, CT.031, CT.034: Selective Catalytic Reduction
- CT.002, CT.005, CT.008, CT.011, CT.014, CT.017, CT.020, CT.023, CT.026, CT.029, CT.032, CT.035: Diesel Oxidation Catalyst
- CT.003, CT.006, CT.009, CT.012, CT.015, CT.018, CT.021, CT.024, CT.027, CT.030, CT.033, CT.036: Diesel Particulate Filters

**System C – Emergency Power Generation, Group RMR03**

- ENG0017-ENG028: Caterpillar C175-20 4,000 kW Engines
- CT.037, CT.040, CT.043, CT.046, CT.049, CT.052, CT.055, CT.058, CT.061, CT.064, CT.067, CT.070: Selective Catalytic Reduction
- CT.038, CT.041, CT.044, CT.047, CT.050, CT.053, CT.056, CT.059, CT.062, CT.065, CT.068, CT.071: Diesel Oxidation Catalyst
- CT.039, CT.042, CT.045, CT.048, CT.051, CT.054, CT.057, CT.060, CT.063, CT.066, CT.069, CT.072: Diesel Particulate Filters

**System D – Emergency Power Generation, Group RMR04**

- ENG029-ENG040: Caterpillar C175-20, 4,000 kW Engines
- CT.073, CT.076, CT.079, CT.082, CT.085, CT.088, CT.091, CT.094, CT.097, CT.100, CT.103, CT.106: Selective Catalytic Reduction
- CT.074, CT.077, CT.080, CT.083, CT.086, CT.089, CT.092, CT.095, CT.098, CT.101, CT.104, CT.107: Diesel Oxidation Catalyst
- CT.075, CT.078, CT.081, CT.084, CT.087, CT.090, CT.093, CT.096, CT.099, CT.102, CT.105, CT.108: Diesel Particulate Filters

**Insignificant Activities:**

- IA.001: 4,000 Gallon Diesel Fuel Storage Tank (associated with RMR01)
- IA.002: 5,000 Gallon Diesel Fuel Storage Tank (associated with RMR02)
- IA.003: 6,700 Gallon Diesel Fuel Storage Tank (associated with RMR03)
- IA.004: 250 Gallon Diesel Fuel Storage Tank
- IA.005: 250 Gallon Gasoline Fuel Storage Tank
- IA.006: 300 Gallon Diesel Fuel Storage Tank (associated with Wells 2 and 3)

- IA.007: 660 Gallon Diesel Fuel Storage Tank (associated with Well 4)
- IA.008-IA.009: Generac SD250 250 kW Engines
- IA.010: Caterpillar C9 300 kW Engine

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**Issued by the Northern Nevada Public Health - Air Quality Management Division (AQMD) pursuant to its authority under District Board of Health Regulations Governing Air Quality Management Chapter 030, Source Permitting and Operation.**

## TABLE OF CONTENTS

I. General Provisions.....	5
II. Facility-Wide Provisions .....	9
III. Specific Provisions.....	11
A. System B – Emergency Power Generation, Group RMR02.....	11
IV. Construction Authorization.....	14

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## I. General Provisions

- A. Transfer of Ownership** – A permit may not be transferred from one owner or piece of equipment to another unless otherwise specified in DBOH 030.000.C.2.c.(5). An owner or operator may apply for an administrative amendment reflecting a change of ownership or the name of the stationary source. The request for an administrative amendment shall be made on an application provided by the Control Officer, and the application must be accompanied by a fee as determined by the District Board of Health. (DBOH 030.000.C.2)
- B. Posting of Permit** – The owner or operator shall post this permit conspicuously at or near the stationary source. (DBOH 030.020.A.2.c.(15))
- C. Modifications of Permit** – It is unlawful for any person to make any modifications affecting the emissions of any equipment covered by this permit without AQMD approval. Modification of the equipment covered by this permit outside of routine operation and maintenance may require a Permit to Construct. (DBOH 030.200.C.1.a)
- D. Record Keeping** – The owner or operator shall keep adequate records concerning pollutant emissions for any equipment or process for which the permit was issued. All owners and operators operating add-on emissions control equipment shall maintain records sufficient to legally demonstrate that the equipment has operated in compliance with all applicable Federal, State and Health District regulations. The owner or operator shall also record any times or occasions when the emissions control equipment is not in operation due to equipment failure, maintenance or any other reason. The owner or operator shall retain records of all required monitoring data and supporting information for five (5) years after the date of the sample collection, measurement, report or analysis, where supporting information includes all records regarding calibration and maintenance of the monitoring equipment and all original strip-chart recordings for continuous monitoring instrumentation. (DBOH 030.040.B.11, DBOH 030.020.A.2.c.(2))
- E. Right of Entry** – Upon presentation of credentials and other documents as may be required by law, the owner or operator shall allow the Control Officer or an authorized representative to enter the premises where a source is located, or emissions related activity is conducted and to: (DBOH 030.200.D.1q)
1. Have access to and copy any records that must be kept under the conditions of the permit.
  2. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices or operations regulated or required under the permit.
  3. Sample or monitor substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.
  4. Document alleged violations using devices such as cameras or video equipment.
- F. Opacity** – Except as otherwise provided in DBOH Regulations 030.000.B.5, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity shall be determined by one of the following methods: (DBOH 030.000.B.5)
1. If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in 40 CFR PART 60 Appendix A.

2. If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 CFR PART 60.13(h).

- G. Other Regulations** – This permit will not waive, or make less stringent, any limitations or requirements contained in or issued pursuant to the Washoe County portion of the Nevada State Implementation Plan (SIP), or that are otherwise federally enforceable. This permit shall not affect the responsibilities of the owner or operator to comply with the applicable portions of a control strategy in the SIP. (DBOH 030.200.D.1.u, 030.200.D.1.v)
- H. Concealment of Emissions** – No person may install, construct or use any device which conceals any emission without reducing the total release of regulated air pollutants to the atmosphere. (DBOH 030.000.B.2)
- I. Severability** – If any provisions of DBOH Regulations, this permit, or the application thereof to any person or circumstance is held invalid or unconstitutional, such invalidity or unconstitutionality shall not affect the other provisions or applications of these regulations which can be given effect without the invalid provision or application, and to this end the provisions of these regulations are declared to be severable. (DBOH 030.000.B.1)
- J. Property Rights** – The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. (DBOH 030.020.A.2.c(10))
- K. Excess Emissions and Deviations** – Excess emissions of regulated air pollutants and any deviations from the requirements of this permit shall be reported to the AQMD as specified in DBOH Regulations 030.040.A. (DBOH 030.040.A)
- L. Fees** – The owner or operator shall pay fees to the AQMD consistent with the approved fee schedule. (DBOH 030.200.D.1.k)
- M. Construction as Authorized** – If a new or modified source cannot be constructed as authorized by the permit, the owner or operator shall provide a written notice to the Control Officer of any proposed revisions and obtain a revised permit prior to commencing construction. A source may be subject to enforcement action as a result of differences between the permitted and constructed source. (DBOH 030.200.D.1.n)
- N. Revocation for Cause** – The permit may be revised, revoked, reopened and reissued, or terminated for cause by the Control Officer. (DBOH 030.000.C.1)
- O. Permit Noncompliance** – The owner or operator must comply with all conditions of the permit and any permit noncompliance constitutes a violation of the regulations and is grounds for enforcement action; for permit termination, or revocation; or for denial of a permit renewal application. The need to halt or reduce activity to maintain compliance with the conditions of the permit is not a defense to noncompliance with any condition of the permit. (DBOH 030.200.D.1.p, DBOH 030.020.A.2.c.(8))

- P. Records Request** – The owner or operator must furnish to the Control Officer, within a reasonable time, any information that the Control Officer may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the owner or operator shall also furnish to the Control Officer copies of records required to be kept by the permit or, for information claimed to be confidential, the owner or operator may furnish such records directly to the Control Officer along with a claim of confidentiality pursuant to DBOH Regulations 020.000.D and NRS 445B.570. (DBOH 030.200 D.1.s)
- Q. Acknowledgement of Responsibility for Compliance** – The owner or operator's commencement of operation constitutes an acknowledgement that the owner or operator assumes the responsibility of ensuring that the source's emissions units and emission control equipment have been constructed and will be operated in compliance with all applicable requirements. (DBOH 030.200.D.2)
- R. Permit Revisions** – Any requested revision of an emission limitation, monitoring, testing, reporting, or recordkeeping requirement shall be made consistent with the permit revision requirements in DBOH Regulations 030.200.F. (DBOH 030.200.D.1.e)
- S. Responsible Official Certification** – A responsible official of the stationary source shall certify that, based on information and belief formed after a reasonable inquiry, the statements made in any document required to be submitted by any condition of the permit are true, accurate, and complete. (DBOH 030.020.A.2.c.(14))
- T. Compliance Plan** – A significant permit revision or a renewal for a source that is not in compliance at the time the application is submitted, shall include a compliance plan to address the non-compliant issue(s). The plan shall include a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance with any requirements that the source is not in compliance with at the time of permit issuance. Any such plan shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. (DBOH 030.200.C.5.j, DBOH 030.200.D.1.m)
- U. Notifications** – The owner or operator shall furnish the Control Officer written notification of: (DBOH 030.200.D.1.w)
1. The date that construction or reconstruction is commenced, postmarked no later than thirty (30) calendar days after such date.
  2. The anticipated date of initial start-up, postmarked not more than sixty (60) calendar days and not less than thirty (30) calendar days before such date.
  3. The actual date of initial start-up, postmarked within fifteen (15) calendar days after such date.
- V. Alternate Operating Scenarios** – The owner or operator may make changes among reasonably anticipated operating scenarios identified in its application, as approved by the Control Officer. Such terms and conditions shall require the source: (DBOH 030.200.D.1.l)
1. To record in a log at the permitted facility, while making a change from one operating scenario to another, the scenario under which the facility is operating.



2. For each such alternative operating scenario, to comply with all applicable requirements and the requirements of DBOH Regulations PART 030.200.

**W. Additional Conditions** – The Control Officer may impose additional conditions necessary to ensure compliance with any applicable requirement. (DBOH 030.200.D.1.x)

**X. Yearly Reports, Annual Emissions** - The owner or operator may be required to submit reports including, but not limited to, throughput, production, fuel consumption, hours of operation, emissions, emission factors and calculations used to determine the reported emissions from each permitted emissions unit for the previous calendar year. If requested, these reports shall be submitted to the Control Officer for all emissions units/systems specified on the Permit to Operate, and shall be submitted no later than March 31 annually for the preceding calendar year (DBOH 030.040.B.13)



## II. Facility-Wide Provisions

**A. Facility-Wide Emissions Limits.** The following quantities of emissions are the facility's allowable emissions based upon the source's potential to emit, as determined by the physical and operational design of the equipment and any practically enforceable permit conditions that limit the emissions of the source based on use of emissions control equipment, controlled operating rates, hours of operation, or other emissions control methods. The following quantities are used to determine annual permit maintenance fees and are enforceable emissions limits: (DBOH 030.010.A)

1. The discharge of PM<sub>10</sub> to the atmosphere shall not exceed 1.71 tons per 12-month rolling period.
2. The discharge of PM<sub>2.5</sub> to the atmosphere shall not exceed 1.71 tons per 12-month rolling period.
3. The discharge of sulfur dioxide to the atmosphere shall not exceed 0.68 tons per 12-month rolling period.
4. The discharge of nitrous oxides to the atmosphere shall not exceed 95.0 tons per 12-month rolling period.
5. The discharge of carbon monoxide to the atmosphere shall not exceed 18.27 tons per 12-month rolling period.
6. The discharge of volatile organic compounds to the atmosphere shall not exceed 2.18 tons per 12-month rolling period.
7. The discharge of total Hazardous Air Pollutants to the atmosphere shall not exceed 1.75 tons per 12-month rolling period.

**B. Monitoring and Recordkeeping.** Sources seeking exemption from Title V as a synthetic minor source shall maintain the following records of operation sufficient to calculate actual emissions annually. Such information shall be summarized in a monthly log, maintained on site for five years, and be made available to the Control Officer upon request. (DBOH 010.090 E)

1. The owner or operator shall calculate and record, in a contemporaneous log, estimated total PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, VOC, and HAP emissions for all emissions sources each calendar month, in tons, based on fuel consumption and hours of operation using the equations and emissions factors identified in the owner or operator's synthetic minor application or other AQMD-approved method. Records shall be maintained on site for a period of at least five years and shall be made available to AQMD representatives upon request.
2. The owner or operator shall calculate 12-month rolling total facility-wide estimated emissions of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, VOC, and HAP for each calendar month in ton(s) per year. Emissions totals shall be available within 60 days of the end of a month. The owner or operator shall total PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, VOC, and HAP emissions as calculated for all sources identified in this permit to determine compliance with the regulated air pollutants facility-wide emissions limit.

**C. Reporting.** An annual report shall be submitted to the Northern Nevada Public Health Air Quality Management Division by March 31 of each year. This report shall include: (DBOH 010.090 E)

1. Once per year, the owner or operator shall report to Control Officer the 12-month rolling total regulated air pollutants emissions recorded under the regulated air pollutants emissions calculation (Condition II.B.1 of this permit) used to determine compliance with the regulated air pollutants facility-wide

emissions limit. The report shall include, but is not limited to, all methods, equations, emissions factors, and sources for emissions factors not previously identified used to determine the 12-month rolling total regulated air pollutants emissions.

2. Together with the annual report, the owner/operator shall submit an annual certification of compliance, signed by the owner/operator's responsible official. The certification shall read:

"Under penalty of perjury, I certify the following: based on information and belief formed after reasonable inquiry, the owner/operator facility has been in compliance with the synthetic minor conditions for the following period of time: \_\_\_\_\_"

- D. Deviations.** Each owner or operator shall notify the Control Officer of any deviations from the requirements of a permit or these regulations within 15 calendar days. The report to the Control Officer shall include the probable cause of all deviations and any action taken to correct the deviations. (DBOH 030.040.A.1.d)

### III. Specific Provisions

#### A. System B – Emergency Power Generation, Group RMR02

- B.001-B.012: Cummins 2750DQLF 2,750 kW Engines
- CT.001, CT.004, CT.007, CT.010, CT.013, CT.016, CT.019, CT.022, CT.025, CT.028, CT.031, CT.034: Selective Catalytic Reduction
- CT.002, CT.005, CT.008, CT.011, CT.014, CT.017, CT.020, CT.023, CT.026, CT.029, CT.032, CT.035: Diesel Oxidation Catalyst
- CT.003, CT.006, CT.009, CT.012, CT.015, CT.018, CT.021, CT.024, CT.027, CT.030, CT.033, CT.036: Diesel Particulate Filters

1. **Initial Notification Requirements.** The owner or operator of each affected facility shall submit notifications for the construction and startup of the control technology. These notifications shall be submitted using initial notification documents provided by the Control Officer. (DBOH 030.040.B.12)

- a. The Start of Construction Notification form notifying the date of construction or reconstruction commenced of the control technology CT.001 through CT.036, each, shall be submitted no later than thirty (30) calendar days after such date. This Notification shall be submitted to the Control Officer.
- b. The Startup Notification notifying the actual date of initial startup of the control technology CT.001 through CT.036, each, shall be submitted within fifteen (15) calendar days after such date.

#### 2. Air Pollution Equipment

- a. Emissions from B.001 through B.012, each, shall be controlled by selective catalytic reduction (SCR), diesel oxidation catalyst (DOC), and diesel particulate filters (DPF) CT.001 through CT.036 at all times during operation except during periods of startup, shutdown, and malfunction. (DBOH 030.020 A.6.g)
- b. The owner or operator of a compression ignition (CI) combustion engine equipped with SCR shall immediately commence urea injection when the SCR catalyst bed reaches minimum operating temperature as specified by the SCR system manufacturer. (DBOH 030.020 A.6.g)
- c. The owner or operator of a CI combustion engine equipped with DOC shall immediately commence operation of the DOC when the exhaust temperature reaches minimum operating temperature as specified by the DOC manufacturer. (DBOH 030.020 A.6.g)
- d. The owner or operator of a CI combustion engine equipped with DPF shall install a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached. (DBOH 030.020 A.6.g)

(1) The owner or operator shall inspect the DPF every 100 hours and clean, if needed, and per manufacturer's specifications.

(2) The owner or operator shall keep records of any corrective action taken on the DPF.

(3) There shall not be any changes to the design or operating conditions of the DPF without prior written approval by the Control Officer.

- (4) The owner or operator shall take all corrective actions recommended by the manufacturer in response to backpressure monitor notifications.

### 3. Emissions Limits

- a. For CI ICE with a displacement of 6.8 liters per cylinder, the engines shall comply with the emissions standards for Nonroad Compression-Ignition Engines for all pollutants. The emissions standards are provided in Table 1. (EPA Nonroad Compression-Ignition Engines: Exhaust Emission Standards)

**Table 1 – Emission Standards for Nonroad Diesel Engines, in g/kW-hr (g/hp-hr)**

Maximum Engine Power	Starting Model Year	CO	NMHC/VOC	NO <sub>x</sub>	PM
kW > 560 (hp > 750)	2015	3.5 (2.6)	0.19 (0.14)	0.67 (0.50)	0.03 (0.022)

### 4. Operating Parameters

- a. If you own or operate an emergency stationary internal combustion engine, you must operate the engine according to the requirements in paragraphs 4.a.(1) through 4.a.(4) of this section. For the engine to be considered an emergency stationary internal combustion engine, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in this section, is prohibited. If the engine is not operated in accordance with the specified criteria, the engine will not be considered an emergency engine and will be required to meet all requirements for non-emergency engines. (40 CFR 60.4211(f))
- (1) There is no time limit on the use of the emergency engine in emergency situations. (40 CFR § 60.4211(f)(1))
  - (2) The engine may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The total number of hours of operation for these purposes shall not exceed 100 hours per calendar year per engine. (40 CFR § 60.4211(f)(2))
  - (3) The engine may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation are counted towards the 100 hours per calendar year for maintenance and testing purposes. The emergency engine shall not be used for peak shaving, non-emergency demand response, to generate income for a facility to an electric grid, or otherwise supply power as part of a financial arrangement with another entity, except as provided in paragraph 4.a.(3) of this section. The 50 hours per year for non-emergency situations may be used to supply power as part of a financial arrangement with another entity provided all the following conditions are met: (40 CFR § 60.4211(f)(3))

- i. The engine is dispatched by the local balancing authority or local transmission and distribution system operator.
  - ii. The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
  - iii. The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
  - iv. The power is provided only to the facility itself or to support the local transmission and distribution system.
  - v. The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.
- (4) The owner or operator is prohibited from operating the emergency engine(s) for demand response when there is a deviation of voltage or frequency. To utilize the engine for demand response or when there is a deviation of voltage or frequency, the source must submit a request to the Control Officer, and the engine shall be treated as a non-emergency engine. (EPA-HQ-OAR-2008-0708; FRL-5300.3-01-OAR)
- b. The owner or operator of an emergency stationary internal combustion engine with a displacement of less than 30 liters per cylinder must use Ultra Low Sulfur Diesel (ULSD) with a maximum sulfur content of 15 ppm and either a minimum cetane index of 40, or a maximum aromatic content of 35 volume percent per 40 CFR 1090.305. (40 CFR § 60.4207)
- c. The engine shall be operated and maintained according to the manufacturer's emission-related written instructions. The owner or operator must notify the Control Officer of any alterations or modifications of the engine or emission-related equipment. (40 CFR § 60.4211)
- d. If the engine is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or emission-related settings are changed in a way that is not permitted by the manufacturer, compliance must be demonstrated as follows: (40 CFR § 60.4211(g))
  - (1) If you are an owner or operator of a stationary CI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. You must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards. (40 CFR § 60.4211(g)(3))

- e. The owner or operator must operate and maintain the emergency stationary internal combustion engine that achieves the emission standards as required in 40 CFR 60.4205 over the entire life of the engine. (40 CFR § 60.4206)

## 5. Monitoring, Recordkeeping, and Reporting

- a. B.001 through B.012, each, shall be equipped with an operational non-resettable hour meter. (40 CFR § 60.4209(a))
  - (1) If the non-resetting hour meter is found to be malfunctioning, the owner or operator shall: (DBOH 030.020 A.6.g)
    - i. Record hours of operation daily until the function of the hour meter is restored; and
    - ii. Restore the function of the hour meter within two (2) weeks. If it is not possible to restore the function of the hour meter within two (2) weeks, the owner or operator shall notify the Control Officer in writing and provide a schedule for restoration of the function of the hour meter.
- b. The owner or operator, upon issuance of this permit, shall maintain in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log must be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. (DBOH 030.200.D.1.d.(2))
  - (1) Maintenance records for each engine, SCR, DOC, and DPF.
  - (2) SCR, DOC, and DPF system owner's manual or manufacturer's specifications.
  - (3) All backpressure monitor notifications and corrective actions taken.
  - (4) Monitor and record hours of operation of B.001 through B.012, each, for maintenance purposes, including a description of the maintenance that was performed, on a daily basis.
  - (5) Monitor and record hours of operation of B.001 through B.012, each, for emissions testing purposes, including a description of the testing that was performed, on a daily basis.
  - (6) Monitor and record hours of operation of B.001 through B.012, each, for emergency situations, including a description of the nature of the emergency, on a daily basis.
  - (7) Monitor and record the No. 2 diesel fuel consumption, in gallons, for B.001 through B.012, each, on a daily basis, by either:
    - i. Multiplying the total hours of operation and the maximum hourly fuel consumption rate as specified on the manufacturer's specification sheet; or
    - ii. By use of a fuel flow meter.

## 6. Testing

- a. The owner or operator shall conduct performance testing on the exhaust stack of B.001 through B.012, each, pursuant to the requirements below to determine compliance with the emissions limits of Section 3.a of this permit. (DBOH 030.040.A.2)



- (1) Performance tests shall be conducted under such conditions as the Control Officer specifies to the owner or operator of the facility. The owner or operator shall make available to the Control Officer such records as may be necessary to determine the conditions of the performance tests.
- (2) The owner or operator shall give notice to the Control Officer at least 30 days before the performance tests to allow the Control Officer to have an observer present. A written testing procedure shall be submitted to the Control Officer at least 30 days before the performance test to allow the Control Officer to review the proposed testing procedure. The notice and testing procedure shall be submitted via email to [AQMDCompliance@nnph.org](mailto:AQMDCompliance@nnph.org).
- (3) Results of the performance tests shall be submitted to the Control Officer within 60 days of the test date. The results shall be submitted via email to [AQMDCompliance@nnph.org](mailto:AQMDCompliance@nnph.org).
  - i. The report shall include, but not be limited to, the emission rate in g/kW-hr, g/bhp-hr, pounds per hour, and concentration in parts per million by volume (ppmv) at 15% oxygen at the outlet of the air pollution control system.
  - ii. The following operating data shall also be included for each firing load:
    - (a) The exhaust flow rate, in actual cubic feet per minute (ACFM);
    - (b) The engine loads;
    - (c) The exhaust temperature, in degrees Fahrenheit;
    - (d) The oxygen content of the exhaust gases, in percent; and
    - (e) The fuel flow rate.
- (4) The owner or operator of three or more identical engines located at the same facility may elect to conduct pooled source testing for PM, NO<sub>x</sub>, CO, and NMHC/VOC's, pursuant to the following:
  - i. At least one-third of engines B.001 through B.012 shall be source tested during the initial source test and all subsequent source testing shall be conducted on a different one-third engines. The initial source test shall be conducted no later than 60 days after the initial start-up of control technologies CT.001 through CT.036 unless otherwise approved in writing by the Control Officer. Subsequent source testing of pooled engines shall be conducted at least every three years from the date of the previous source test, no later than the last day of the calendar month that the test is due. The final pool of source testing may be less than one-third if the group of engines includes the balance of engines remaining to be tested.
  - ii. If any engine subject to the pooled source testing exceeds any permitted emissions limits, the owner or operator shall repair the engine that failed the source tests and repeat the source test on that engine, and shall conduct source testing on an additional one-third of the engines within six months of failing the tests (additional time may be allotted for compliance determinations or review of the source test results by the Control Officer); and
  - iii. All pooled units at a facility shall be source tested at least once every nine years.



- (5) The owner or operator shall conduct source tests for the pollutants identified below and shall comply with all applicable testing, sampling port location, and safe access requirements as specified in the test methods.

Pollutant	Required Test Method	Duration and Averaging Time	Test Location
PM	EPA Method 201A	Two consecutive runs per load, AQMD-approved averaging time (total of 4 runs)	Outlet Stack
NO <sub>x</sub>	EPA Method 7E	Two consecutive runs per load, 30-minutes per run load (total of 4 runs)	Outlet Stack
CO	EPA Method 10	Two consecutive runs per load, 30-minutes per run load (total of 4 runs)	Outlet Stack
NMHC/VOC	EPA Method 25 and EPA Method 18	Two consecutive runs per load, 30-minutes per run load (total of 4 runs)	Outlet Stack

- i. The performance tests shall be conducted at 50% and 75% loads using an appropriately sized resistance load bank (or equivalent), for two consecutive 30-minute runs, and the results shall be averaged to demonstrate compliance with the Tier 4F standards as required by this permit.

#### IV. Construction Authorization

Date

Brandon Koyama  
Environmental Engineer II  
Air Quality Management Division  
Northern Nevada Public Health

Date

Genine Rosa, MS  
Senior Air Quality Specialist  
Air Quality Management Division  
Northern Nevada Public Health