



CONSTRUCTION PERMIT

Permit number: **99DG0880**

Issuance: **5**

Date issued: **May 30, 2024 479038**

Issued to: **Equinix, LLC**

Facility Name: VDC I LLC
Plant AIRS ID: 035-0404
Physical Location: 335 Inverness Drive South, Englewood
County: Douglas County
General Description: Telecommunication network hub

Equipment or activity subject to this permit:

Facility Equipment ID	Serial Number	AIRS Point	Description
Engine 1A Engine 2A Engine 3A Engine 1B Engine 2B Engine 3B	C000075029 C000075031 C000075033 C000075032 C000075028 C000075030	001	Six (6) MAKE: Cummins, MODEL: QSK60-G6 NR1, diesel-fueled engines, each rated at 2,922 horsepower. Manufactured/entered into the state of Colorado as of 2000. These engines are not subject to NSPS Subpart IIII tier standards.
Engine 4A Engine 4B	K080219660 J080217431	002	Two (2) MAKE: Cummins, MODEL: QSK60-G6 NR2, diesel-fueled engines, each rated at 2,919 horsepower. Manufactured in 2008 and entered into the state of Colorado as of 2010. These engines are subject to NSPS Subpart IIII, tier 2 standards.

These engines may be replaced with other engines in accordance with the temporary engine replacement provision or with the same manufacturer and model of engine as submitted to the Division per Requirements to Self-Certify for Final Authorization in accordance with the permanent replacement provision of the Alternate Operating Scenario (AOS), included in this permit as Attachment A.



THIS PERMIT IS GRANTED SUBJECT TO ALL RULES AND REGULATIONS OF THE COLORADO AIR QUALITY CONTROL COMMISSION AND THE COLORADO AIR POLLUTION PREVENTION AND CONTROL ACT C.R.S. (25-7-101 et seq), TO THOSE GENERAL TERMS AND CONDITIONS INCLUDED IN THIS DOCUMENT AND THE FOLLOWING SPECIFIC TERMS AND CONDITIONS:

REQUIREMENTS TO SELF-CERTIFY FOR FINAL APPROVAL

1. **Points 001 & 002:** YOU MUST notify the Air Pollution Control Division (Division) no later than fifteen days after commencement of operation under this permit by submitting a Notice of Startup (NOS) form to the Division. The Notice of Startup (NOS) form may be downloaded online at <https://cdphe.colorado.gov/apens-and-air-permits/air-permit-self-certification>. Failure to notify the Division of startup of the permitted source is a violation of AQCC Regulation Number 3, Part B, III.G.1 and can result in the revocation of the permit.
2. Within one hundred and eighty (180) days after issuance of this permit, compliance with the conditions contained on this permit must be demonstrated to the Division. It is the permittee's responsibility to self-certify compliance with the conditions. Failure to demonstrate compliance within 180 days may result in revocation of the permit or enforcement action by the Division. Information on how to certify compliance was mailed with the permit or can be obtained from the Division's website. Search for "Colorado air permit self-certification" in a search engine to find self-certification info. (Reference: Regulation Number 3, Part B, III.G.2.)
3. **Points 001 & 002:** The owner or operator must develop an operating and maintenance (O&M) plan, along with a recordkeeping format, that outlines how the applicant will maintain compliance on an ongoing basis with the requirements of this permit. **Compliance with the O&M plan must commence at startup.** Within one hundred and eighty (180) days after issuance of this permit, the owner or operator must submit the O&M plan to the Division. Failure to submit an acceptable operating and maintenance plan could result in revocation of the permit. Note that the Division may modify the monitoring requirements as part of the Title V Operating Permit if this facility is subject to Title V permitting. (Reference: Regulation Number 3, Part B, III.G.7.)

EMISSION LIMITATIONS AND RECORDS

4. The owner or operator must track emissions from all insignificant activities at the facility on an annual basis to demonstrate compliance with **the facility emission limitations** as indicated below. An inventory of each insignificant activity and associated emission calculations must be made available to the Division for inspection upon request. For the purposes of this condition, insignificant activities are defined as any activity or equipment, which emits any amount but does not require an Air Pollution Emission Notice (APEN) or is permit exempt. (Reference: Regulation Number 3, Part C, II.E.)

Total emissions from the facility, including all permitted emissions and potential to emit from all insignificant activities, must be less than:

- 25 tons per year of NO_x



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5. Emissions of air pollutants must not exceed the following limitations (as calculated using the emission factors included in the “Notes to Permit Holder” section of this permit). Monthly records of the actual emission rates must be maintained by the applicant and made available to the Division for inspection upon request. (Reference: Regulation Number 3, Part B, II.A.4.)

Annual Limits:

Facility Equipment ID	AIRS Point	Tons per Year							Emission Type
		PM	PM ₁₀	PM _{2.5}	NO _x	SO ₂	VOC	CO	
Engine 1A Engine 2A Engine 3A Engine 1B Engine 2B Engine 3B	001	-	-	-	19.0	-	-	-	Point
Engine 4A Engine 4B	002	-	-	-	4.8	-	-	-	Point
TOTAL		-	-	-	23.8	-	-	-	Point

See “Notes to Permit Holder #3)” for information on emission factors and methods used to calculate limits.

Compliance with the annual limits must be determined by recording the facility’s annual emissions for the pollutants listed in the table above on a rolling twelve (12)-month total. By the end of each month a new twelve-month total must be calculated based on the previous twelve months’ data. The permit holder must calculate monthly emissions and keep a compliance record on site, or at a local field office with site responsibility, for Division review.

The owner or operator must use the emission factors found in Notes to Permit Holder 3) to calculate emissions and show compliance with the limits. The owner or operator must submit an Air Pollutant Emission Notice (APEN) and receive a modified permit prior to the use of any other method of calculating emissions.

PROCESS LIMITATIONS AND RECORDS

6. This source must be limited to the following maximum consumption, processing and/or operational rates as listed below. Annual and monthly records of the actual process rate must be maintained by the applicant and made available to the Division for inspection upon request. (Reference: Regulation Number 3, Part B, II.A.4.)

Process/Consumption Limits

Facility Equipment ID	AIRS Point	Process Parameter	Annual Limit
Engine 1A Engine 2A Engine 3A Engine 1B Engine 2B Engine 3B	001	Hours of Operation (per engine)	140 hours/year/engine
Engine 4A Engine 4B	002	Hours of Operation (per engine)	140 hours/year/engine

Compliance with these consumption limits will be demonstrated by installing a non-resettable hour meter on each engine and recording the hours of each engine's operation.

Compliance with the yearly process limits must be determined on a rolling twelve (12)-month total. By the end of each month a new twelve-month total is calculated based on the previous twelve months' data. The permit holder must calculate monthly process rate and keep a compliance record on site or at a local field office with site responsibility, for Division review.

STATE AND FEDERAL REGULATORY REQUIREMENTS

7. Visible emissions must not exceed twenty percent (20%) opacity during normal operation of the source. During periods of startup, process modification, or adjustment of control equipment visible emissions must not exceed thirty percent (30%) opacity for more than six minutes in any sixty (60) consecutive minutes. Opacity must be determined using EPA Method 9. (Reference: Regulation Number 1, II.A.1 & 4.)
8. This source is subject to the odor requirements of Regulation Number 2. (State only enforceable)
9. The engines covered under point 002 are subject to the New Source Performance Standards requirements of Regulation Number 6, Part A, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (CI ICE) including, but not limited to, the following:

[The requirements below reflect the rule language of 40 CFR Part 60, Subpart IIII published in the Federal Register on 1/30/2013. However, if revisions to this Subpart are published at a later date, the owner or operator is subject to the requirements contained in the revised version of 40 CFR Part 60, Subpart IIII.]

- a. Emissions of Non-Methane Hydrocarbons and Nitrogen Oxides combined shall not exceed 4.8 grams per horsepower hour.



- b. Emissions of Carbon Monoxide shall not exceed 2.6 grams per horsepower hour.
- c. Emissions of Particulate Matter shall not exceed 0.15 grams per horsepower hour.
- d. All fuel purchased shall meet the following specifications:
 - (1) Sulfur content shall not exceed 15 ppm.
 - (2) Have a minimum cetane index of 40 or
Have a maximum aromatic compound content of 35% by volume.Compliance shall be demonstrated by maintaining copies of the fuel specifications provided by the supplier on-site or in a readily accessible location and made available to the Division for inspection upon request.
- e. All engines and control devices must be installed, configured, operated, and maintained according to the specifications and instructions provided by the engine manufacturer.
- f. If engine(s) are equipped with a diesel particulate filter(s), the filter(s) must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine(s) is approached. Records shall be kept of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit is approached.
- g. If engine(s) are used for emergency purposes, a non-resettable hour meter must be installed prior to start-up. (Reference: NSPS IIII, §60.4209(a).)
- h. These engine(s) shall not be used for any purpose except emergency power generation and for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. Emergency stationary ICE may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity. For owners and operators of emergency engines, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in this section, is prohibited. (Reference: NSPS IIII, §60.4211(f).)



10. The engines covered under point 002 are subject to the following requirements of Regulation Number 6, Part A, Subpart A, General Provisions (40 CFR Part 60, Subpart A).
 - a. At all times, including periods of start-up, shutdown, and malfunction, the facility and control equipment shall, to the extent practicable, be maintained and operated in a manner consistent with good air pollution control practices for minimizing emissions. Determination of whether or not acceptable operating and maintenance procedures are being used will be based on information available to the Division, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. (Reference: Regulation Number 6, Part A, General Provisions from 40 CFR 60.11)
 - b. No article, machine, equipment or process shall be used to conceal an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. (§60.12)
11. This source is located in an ozone nonattainment or attainment-maintenance area and subject to the Reasonably Available Control Technology (RACT) requirements of Regulation Number 3, Part B, III.D.2.
 - a. Point 001: RACT for these engines was determined to be “no control” due to limits on operating hours and emissions, and the excessive cost per ton of emissions removed.
 - b. Point 002: RACT for these engines was determined to be the requirements of condition number 9.

OPERATING & MAINTENANCE REQUIREMENTS

12. The owner or operator must develop an operating and maintenance (O&M) plan, along with a recordkeeping format, that outlines how the applicant will maintain compliance on an ongoing basis with the requirements of this permit. **Compliance with the O&M plan must commence at startup.** Within one hundred and eighty (180) days after commencement of operation or issuance of this permit, whichever is later, the owner or operator must submit the O&M plan to the Division. Failure to submit an acceptable operating and maintenance plan could result in revocation of the permit. Note that the Division may modify the monitoring requirements as part of the Title V Operating Permit if this facility is subject to Title V permitting. (Reference: Regulation Number 3, Part B, III.G.7.)

COMPLIANCE TESTING AND SAMPLING

Periodic Testing Requirements

13. Replacements of this unit completed as Alternative Operating Scenarios may be subject to additional testing requirements as specified in Attachment A.

ADDITIONAL REQUIREMENTS

14. All previous versions of this permit are superseded upon issuance of this permit.

15. The AIRS ID number must be marked on the subject equipment for ease of identification. (Reference: Regulation Number 3, Part B, III.E.) (State only enforceable)
16. A Revised Air Pollutant Emission Notice (APEN) must be filed: (Reference: Regulation Number 3, Part A, II.C.)
- a. By April 30 of the year following a significant increase in emissions. A significant increase in emissions is defined as follows:
- For any criteria pollutant:**
- For sources emitting **less than 100 tons per year**, a change in actual emissions of five tons per year or more, above the level reported on the last APEN submitted; or
- For volatile organic compounds (VOC) and nitrogen oxide (NO_x) sources in an ozone non-attainment area emitting **less than 100 tons of VOC or nitrogen oxide per year**, a change in actual emissions of one ton per year or more or five percent, whichever is greater, above the level reported on the last APEN submitted; or
- For sources emitting **100 tons per year or more of a criteria pollutant**, a change in actual emissions of five percent or 50 tons per year or more, whichever is less, above the level reported on the last APEN submitted; or
- For sources emitting **any amount of lead**, a change in actual emissions, above the level reported on the last APEN submitted, of fifty (50) pounds of lead
- For any non-criteria reportable pollutant:**
- If the emissions increase by 50% or five (5) tons per year, whichever is less, above the level reported on the last APEN submitted to the Division.
- b. Whenever there is a change in the owner or operator of any facility, process, or activity; or
- c. Whenever new control equipment is installed, or whenever a different type of control equipment replaces an existing type of control equipment; or
- d. Whenever a permit limitation must be modified; or
- e. No later than 30 days before the existing APEN expires.
17. The terms, conditions and information contained in Attachment A are hereby incorporated into this permit, and are enforceable as if fully set forth herein including, but not limited to, emission point description, emission factor summary, emission limits or other limitations, controls, and specific requirements. (Reference: Regulation Number 3, Part B, III.E.)

GENERAL TERMS AND CONDITIONS:

18. This permit and any attachments must be retained and made available for inspection upon request. The permit may be reissued to a new owner by the Division as provided in Regulation Number 3, Part B, II.B upon a request for transfer of ownership and the submittal of a revised APEN and the required fee.

19. If this permit specifically states that final approval has been granted, then the remainder of this condition is not applicable. Otherwise, the issuance of this construction permit is considered initial approval and does not provide "final" approval for this activity or operation of this source. Final approval of the permit must be secured from the APCD in writing in accordance with the provisions of 25-7-114.5(12)(a) C.R.S. and AQCC Regulation Number 3, Part B, III.G. Final approval cannot be granted until the operation or activity commences and has been verified by the APCD as conforming in all respects with the conditions of the permit. Once self-certification of all points has been reviewed and approved by the Division, it will provide written documentation of such final approval. **Details for obtaining final approval to operate are located in the Requirements to Self-Certify for Final Approval section of this permit.** The operator must retain the permit final approval letter issued by the Division after completion of self-certification with the most current construction permit.
20. This permit is issued in reliance upon the accuracy and completeness of information supplied by the applicant and is conditioned upon conduct of the activity, or construction, installation and operation of the source, in accordance with this information and with representations made by the applicant or applicant's agents. It is valid only for the equipment and operations or activity(ies) specifically identified in this permit. If subsequent operations or testing at the source indicate the information supplied to obtain this permit and relied upon in the creation and issuance of this permit is inaccurate, the source must submit an application to modify the permit to address the inaccuracy(ies). (Reference: Regulation Number 3, Part B, III.E.)

Permit History

Issuance	Date	Description
Initial Approval	June 22, 2000	Issued to MCI WorldCom Network Information Center. Issued as a synthetic minor.
Final Approval Modification No. 1	July 31, 2003	Decrease in fuel use rate limit, emission factors for NOx and CO from tests.
Initial Approval Modification No. 2	December 5, 2012	Increase in hour limit for point 001 and addition of two new engines on point 002.
-	October 2, 2014	Final approval letter issued.
Issuance #4	February 27, 2020	Transfer of ownership from MCI Communications Services, Inc. dba Verizon Business Services. Removed self certification conditions.
Issuance #5	This Issuance	Modification to lower annual operating limit from 250 to 140 hours/year/emergency standby engine to avoid major source applicability under severe nonattainment status. Updates to model numbers along with manufacturer emissions factors.

Notes to Permit Holder (as of date of permit issuance):

- 1) The production or raw material processing limits and emission limits contained in this permit are based on the production/processing rates requested in the permit application. These limits may be revised upon request of the permittee providing there is no exceedence of any specific emission control regulation or any ambient air quality standard. A revised air pollution emission notice (APEN) and application form must be submitted with a request for a permit revision. (Reference: Regulation Number 3, Part B, II.A.4.)

- 2) This source is subject to the Common Provisions Regulation Part II, Subpart E, Affirmative Defense Provision for Excess Emissions During Malfunctions. The permittee must notify the Division of any malfunction condition which causes a violation of any emission limit or limits stated in this permit as soon as possible, but no later than noon of the next working day, followed by written notice to the Division addressing all of the criteria set forth in Part II.E.1. of the Common Provisions Regulation. See: <https://www.colorado.gov/pacific/cdphe/aqcc-regs>.

- 3) The emission levels contained in this permit are based on the following emission factors:

Point	Pollutant	Emission Factors (lbs/hour of operation)	
		Uncontrolled	Source
001	NO _x	45.0934	Manufacturer specifications for full standby operation, converted from g/hp-hour.
002	NO _x	34.1071	Manufacturer specifications for full standby operation, converted from g/hp-hour.

- 4) In accordance with C.R.S. 25-7-114.1, each Air Pollutant Emission Notice (APEN) associated with this permit is valid for a term of five years from the date it was received by the Division. A revised APEN must be submitted no later than 30 days before the five-year term expires. Please refer to the most recent annual fee invoice to determine the APEN expiration date for each emissions point associated with this permit. For any questions regarding a specific expiration date call the Division at (303)-692-3150.

- 5) This facility is classified as follows:

Applicable Requirement	Status
Operating Permit	Synthetic Minor Source, NO _x
PSD	N/A
NANSR	Synthetic Minor Source, NO _x

- 6) These engine(s) are subject to 40 CFR Part 63, Subpart ZZZZ - **National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (Federally enforceable only)**. A copy of the complete subpart is available on the EPA website at: <http://www.ecfr.gov/cgi-bin/text-idx?node=sp40.14.63.zzzz>. All initial notifications, compliance demonstrations, and required documentation should be submitted directly to U.S. EPA Region 8 and copies sent to the Colorado Air Pollution Control Division

- 7) Full text of the Title 40, Protection of Environment Electronic Code of Federal Regulations can be found at the website listed below:

<https://www.ecfr.gov/current/title-40>

Part 60: Standards of Performance for New Stationary Sources		
NSPS	60.4200 - 60.4219	Subpart IIII
Part 63: National Emission Standards for Hazardous Air Pollutants for Source Categories		
MACT	63.6580 - 63.6675	Subpart ZZZZ

- 8) Point 002: These engines must be used for emergency purposes only. If engine(s) are to be used for any non-emergency purpose (demand response, peak shaving, base power, etc.), the source must submit a new Air Pollutant Emission Notice (APEN) and must meet the NSPS IIII Interim Tier 4 Standards. (Reference: NSPS IIII, §60.4211(f) and Regulation Number 3, Part A, II.A.)
- 9) Point 002: Manufacturer's certification of compliance with the New Source Performance Standards Subpart IIII was submitted with the original application for this permit.
- 10) The permit holder is required to pay fees for the processing time for this permit. An invoice for these fees will be issued after the permit is issued. Failure to pay the invoice will result in revocation of this permit. The permit holder must pay the invoice within 30 days of receipt of the invoice. (Reference: Regulation Number 3, Part A, VI.B.)
- 11) Unless specifically stated otherwise, the general and specific conditions contained in this permit have been determined by the Division to be necessary to assure compliance with the provisions of Section 25-7-114.5(7)(a), C.R.S.
- 12) Each and every condition of this permit is a material part hereof and is not severable. Any challenge to or appeal of a condition hereof must constitute a rejection of the entire permit and upon such occurrence, this permit must be deemed denied *ab initio*. This permit may be revoked at any time prior to self-certification and final authorization by the Division on grounds set forth in the Colorado Air Pollution Prevention and Control Act and regulations of the AQCC including failure to meet any express term or condition of the permit. If the Division denies a permit, conditions imposed upon a permit are contested by the applicant, or the Division revokes a permit, the applicant or owner or operator of a source may request a hearing before the AQCC for review of the Division's action. (Reference: Regulation Number 3, Part B, III.F.)
- 13) Section 25-7-114.7(2)(a), C.R.S. requires that all sources required to file an Air Pollutant Emission Notice (APEN) must **pay an annual emission fee**. If a source or activity is to be discontinued, the owner must notify the Division in writing requesting a cancellation of the permit. Upon notification, annual fee billing will terminate.
- 14) Violation of the terms of a permit or of the provisions of the Colorado Air Pollution Prevention and Control Act or the regulations of the AQCC may result in administrative, civil or criminal enforcement actions under Sections 25-7-115 (enforcement), -121 (injunctions), -122 (civil penalties), -122.1 (criminal penalties), C.R.S.

ATTACHMENT A:
ALTERNATIVE OPERATING SCENARIOS
STATIONARY (CI) ENGINE

October 1, 2011

The current AOS requirements have been included as per below. AOS requirements can change based on new/modified regulations or changes to the facility status. The permittee must comply with the appropriate AOS requirements contained in the most recently issued version of PS-Memo 11-04, available on the Division's website, which may be different than the requirements below.

1. Alternative Operating Scenarios

The following Alternative Operating Scenario (AOS) for the temporary and permanent replacement of Stationary (CI) engines has been reviewed in accordance with the requirements of Regulation Number 3, Part A, IV.A, Operational Flexibility- Alternative Operating Scenarios, Regulation Number 3, Part B, Construction Permits, and Regulation Number 3, Part D, Major Stationary Source New Source Review and Prevention of Significant Deterioration, and it has been found to meet all applicable substantive and procedural requirements. This permit incorporates and must be considered a Construction Permit for any engine replacement performed in accordance with this AOS, and the owner or operator must be allowed to perform such engine replacement without applying for a revision to this permit or obtaining a new Construction Permit.

1.1 Engine Replacement

The following AOS is incorporated into this permit in order to deal with an engine breakdown or periodic routine maintenance and repair of an existing onsite engine that requires the use of either a temporary or permanent replacement engine. "Temporary" is defined as in the same service for 90 operating days or less in any 12 month period. "Permanent" is defined as in the same service for more than 90 operating days in any 12 month period. The 90 days is the total number of days that the engine is in operation. If the engine operates only part of a day, that day must count as a single day towards the 90-day total. The compliance demonstrations and any periodic monitoring required by this AOS are in addition to any compliance demonstrations or periodic monitoring required by this permit.

All replacement engines are subject to all federally applicable and state-only requirements set forth in this permit (including monitoring and record keeping).

The results of all tests and the associated calculations required by this AOS must be submitted to the Division within 60 days. Results of all tests must be kept on site for five (5) years and made available to the Division upon request.

The owner or operator must maintain a log on-site and contemporaneously record the start and stop date of any engine replacement, the manufacturer, date of manufacture, model number, horsepower, and serial number of the engine(s) that are replaced during the term of this permit, and the manufacturer, model number, horsepower, and serial number of the replacement engine.



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- 1.1.1 The owner or operator may **temporarily** replace an existing engine that is covered by this permit with a different engine without modifying this permit, so long as the temporary replacement engine complies with all permit limitations and other requirements applicable to the existing engine. Calculation of emissions from the temporary replacement engine must be made as set forth in section 1.1.3.
- 1.1.2 An Air Pollutant Emissions Notice (APEN) that includes the specific manufacturer, model and serial number and horsepower of the permanent replacement engine must be filed with the Division for the permanent replacement engine within fourteen (14) calendar days of commencing operation of the replacement engine. The APEN must be accompanied by the appropriate APEN filing fee, a cover letter explaining that the owner or operator is exercising an alternative operating scenario and is installing a permanent replacement engine and an analysis of any new applicable requirements for the replacement engine as required by Condition 1.2. This submittal must be accompanied by a certification from the Responsible Official indicating that “based on the information and belief formed after reasonable inquiry, the statements and information included in the submittal are true, accurate and complete”.

This AOS cannot be used for permanent engine replacement of a grandfathered or permit exempt engine or an engine that is not subject to emission limits.

The owner or operator must agree to pay fees based on the normal permit processing rate for review of information submitted to the Division in regard to any permanent engine replacement.

- 1.1.3 Compliance of the replacement engine with the applicable emission limitations of the original engine must be monitored by one of the following methods:
- 1) Manufacturer certified emission factors showing compliance.
 - 2) Stack tests of same make and model showing compliance. This would only be considered if the test was done under similar conditions to Colorado (i.e. at altitude).
 - 3) Stack tests on the engine.

1.2 Applicable Regulations for Permanent Engine Replacements

1.2.1 NSPS for stationary compression ignition internal combustion engines: 40 CFR Part 60, Subpart IIII.

A permanent replacement engine that is ordered after July 11, 2005 and manufactured after April 1, 2006 or is modified or reconstructed after July 11, 2005 is subject to the requirements of 40 CFR Part 60, Subpart IIII. An analysis of applicable monitoring, recordkeeping, and reporting requirements for the permanent engine replacement must be included in any request for a permanent engine replacement.

Note that under the provisions of Regulation Number 6, Part B, I.B. that Relocation of a source from outside of the State of Colorado into the State of Colorado is considered to be a new source, subject to the requirements of Regulation Number 6 (i.e., the date that the source is first relocated to Colorado becomes equivalent to the date of manufacture for purposes of determining the applicability of NSPS IIII requirements).



1.2.2. MACT for Stationary Reciprocating Internal Combustion Engines: 40 CFR Part 63, Subpart ZZZZ.

Any permanent replacement engine located at either an area or major source of hazardous air pollutants is subject to the requirements of 40 CFR Part 63, Subpart ZZZZ. An analysis of applicable monitoring, recordkeeping, and reporting requirements for the permanent engine replacement must be included in any request for a permanent engine replacement.

1.3 Additional Sources

The replacement of an existing engine with a new engine is viewed by the Division as the installation of a new emissions unit, not “routine replacement” of an existing unit. The AOS is therefore essentially an advanced construction permit review. The AOS cannot be used for additional new emission points for any site; an engine that is being installed as an entirely new emission point and not as part of an AOS-approved replacement of an existing onsite engine has to go through the appropriate Construction/Operating permitting process prior to installation.