

STATE OF COLORADO

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
AIR POLLUTION CONTROL DIVISION
TELEPHONE: (303) 692-3150



CONSTRUCTION PERMIT

PERMIT NO: 09EP1103

INITIAL APPROVAL

DATE ISSUED: NOV 19 2009

ISSUED TO: **Hewlett-Packard**

THE SOURCE TO WHICH THIS PERMIT APPLIES IS DESCRIBED AND LOCATED AS FOLLOWS:

Emergency generator, located at 311 Rockrimmon Boulevard, Colorado Springs in El Paso County, Colorado

THE SPECIFIC EQUIPMENT OR ACTIVITY SUBJECT TO THIS PERMIT INCLUDES THE FOLLOWING:

Sixteen (16) Cummins, model: QSK60-G6 NR2, diesel fuel-fired, emergency generators, each site rated at 2,919 horsepower. See Attachment A for detailed equipment list and description.

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:

1. Visible emissions shall 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 shall not exceed 30% opacity for more than six minutes in any sixty consecutive minutes. Opacity shall be measured by EPA Method 9. (Reference: Regulation 1, Section II.A.1. & 4.)
2. The permit number shall be marked on the subject equipment for ease of identification. (Reference: Regulation No. 3, Part B, III.E.) (State only enforceable)
3. Emissions of air pollutants shall not exceed the following limitations (as calculated in the Division's preliminary analysis): (Reference: Regulation No. 3, Part B, II.A.4)

Particulate Matter (TSP):	1.7 tons per year.
Particulate Matter < 10µm (PM ₁₀):	1.7 tons per year.
Sulfur Dioxide (SO ₂):	0.7 tons per year.
Volatile Organic Compounds (VOC):	1.7 tons per year.
Carbon Monoxide (CO):	3.5 tons per year
Nitrogen Oxides (NO _x):	4,688 pounds per month and 27.6 tons per year.

During the first twelve (12) months of operation, compliance with both the monthly and yearly emission limitations shall be required. After the first twelve (12) months of operation, compliance with only the yearly limitation shall be required. By the end of each month a new twelve month total is calculated base on the previous twelve months' data. Compliance with the annual limits shall be determined on a rolling (12) month total. Monthly records of the actual emissions shall be maintained by the applicant and made available to the Division for inspection upon request.

041/0223/012

Hewlett-Packard

Permit No. 09EP1103

INITIAL APPROVAL

4. This source shall be limited to a maximum fuel use rate as listed below and all other activities, operational rates and numbers of equipment as stated in the application. Annual records of the actual consumption rate shall be maintained by the applicant and made available to the Division for inspection upon request. (Reference: Regulation No. 3, Part B, II.A.4)

Diesel fuel consumption shall not exceed **20,384** gallons per month and **240,000** gallons per year

(Based on a fuel heat value of 137,000 Btu per gallon; monthly limit is based on a 31-day month).

During the first twelve (12) months of operation, compliance with both the monthly and yearly consumption limitations shall be required. After the first twelve (12) months of operation, compliance with only the yearly limitation shall be required. Compliance with the yearly consumption limits shall be determined on a rolling twelve (12) month total.

5. This source is subject to the New Source Performance Standards requirements of Regulation No. 6, Part A, Subpart III, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (CI ICE) including, but not limited to, the following:

- 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. Starting October 1, 2007 all fuel used shall meet the following specifications:

(1) Sulfur content shall not exceed 500 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. Starting October 1, 2010 all fuel used 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.

- f. All engines and control devices must be installed, configured, operated, and maintained according to the specifications and instructions provided by the engine manufacturer.

(1) Diesel particulate filter (if used) must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.

Hewlett-Packard

Permit No. 09EP1103

INITIAL APPROVAL

In addition, the following requirements of Regulation No. 6, Part A, Subpart A, General Provisions, apply.

- 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 No. 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)
 - c. Written notification of construction and initial startup dates shall be submitted to the Division as required under § 60.7.
 - d. Records of startups, shutdowns, and malfunctions shall be maintained, as required under § 60.7.
6. Prior to final approval, the owner or operator of this unit shall submit fuel specifications provided by the supplier to demonstrate compliance with permit condition no. 5 above on a continuous basis (Reference: Regulation No. 3, Part B, III.E.).
7. A revised Air Pollutant Emission Notice (APEN) shall be filed: (Reference: Reg.3, Part A,II.C)
- a. Annually whenever a significant increase in emissions occurs 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; or
 - 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.
8. Operating Permit (OP) requirements shall apply to this source at any such time that this facility becomes major solely by virtue of a relaxation in any permit limitation. Any relaxation that increases the potential to emit above the applicable OP threshold shall require submittal of and issuance of an operating permit, under Regulation 3, Part C.
9. The manufacturer, model number and serial number of the subject equipment shall be provided to the Division within one hundred and eighty days (180) after commencement of operation. (Reference: Regulation No. 3, Part B, Section III.E.)

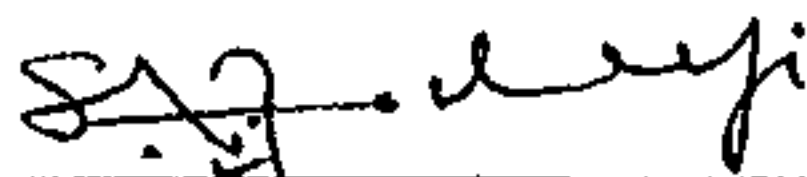
Hewlett-Packard

Permit No. 09EP1103

INITIAL APPROVAL

10. Within one hundred and eighty days (180) after commencement of operation, the applicant shall submit to the Division for approval an operating and maintenance plan for all control equipment and control practices, and a proposed record keeping format that will outline how the applicant will maintain compliance on an ongoing basis with the requirements of condition no. 3, 4 and 5 listed above. The operating and maintenance plan shall commence at startup. (Reference: Regulation No. 3, Part B, Section III.G.7.)
11. This permit shall expire if the owner or operator of the source for which this permit was issued: (i) does not commence construction/modification or operation of this source within 18 months after either the date of issuance of this initial approval permit or the date on which such construction or activity was scheduled to commence as set forth in the permit application associated with this permit; (ii) discontinues construction for a period of eighteen months or more; or (iii) does not complete construction within a reasonable time of the estimated completion date (See General Condition No. 6., Item 1.). Upon a showing of good cause by the permittee, the Division may grant extensions of the permit. (Reference: Regulation No. 3, Part B, Section III.F.4.)

By:



Sunday Fadeyi, P.E.
Permit Engineer

By:



R K Hancock III, P.E.
Unit Leader

Hewlett-Packard

Permit No. 09EP1103

INITIAL APPROVAL

Notes to permit holder:

- 1). The fuel use limit and emission limits contained in this permit are based on the fuel use rate requested in the permit application. These limits may be revised upon request of the permittee providing there is no exceedance 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.
- 2). This source is subject to the Common Provisions Regulation Part II, Subpart E, Affirmative Defense Provision for Excess Emissions During Malfunctions. The permittee shall 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: <http://www.cdphe.state.co.us/regulations/airregs/100102aqcccommonprovisionsreg.pdf>
- 3). The following emissions of non-criteria reportable air pollutants are estimated based upon the material consumptions as indicated in Condition No.4. This information is listed to inform the operator of the Division's analysis of the specific compounds. This information is listed on the Division's emission inventory system.

<u>C.A.S. #</u>	<u>SUBSTANCE</u>	<u>EMISSIONS</u>
75-07-0	Acetaldehyde (BIN A):	2,302 pounds per year

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

Particulate Matter (TSP):	0.318 grams per horsepower-hour
Particulate Matter (PM ₁₀):	0.318 grams per horsepower-hour
Sulfur Dioxide (SO ₂):	0.130 grams per horsepower-hour
Nitrogen Oxides (NO _x):	5.110 grams per horsepower-hour
Volatile Organic Compound (VOC):	0.320 grams per horsepower-hour
Carbon Monoxide (CO):	0.650 grams per horsepower-hour.

- 5). This source is classified as a: Synthetic minor source
At a: Synthetic minor facility.

Hewlett-Packard

Permit No. 09EP1103

INITIAL APPROVAL

GENERAL TERMS AND CONDITIONS: (IMPORTANT! READ ITEMS 5,6,7 AND 8)

1. 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 specifically identified on the permit.
2. Unless specifically stated otherwise, the general and specific conditions contained in this permit have been determined by the APCD to be necessary to assure compliance with the provisions of Section 25-7-114.5(7)(a), C.R.S.
3. 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 shall constitute a rejection of the entire permit and upon such occurrence, this permit shall be deemed denied *ab initio*. This permit may be revoked at any time prior to final approval by the Air Pollution Control Division (APCD) on grounds set forth in the Colorado Air Quality Control Act and regulations of the Air Quality Control Commission (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.
4. This permit and any required attachments must be retained and made available for inspection upon request at the location set forth herein. With respect to a portable source that is moved to a new location, a copy of the Relocation Notice (required by law to be submitted to the APCD whenever a portable source is relocated) should be attached to this permit. The permit may be reissued to a new owner by the APCD as provided in AQCC Regulation No. 3, Part B, Section II.B. upon a request for transfer of ownership and the submittal of a revised APEN and the required fee.
5. Issuance (initial approval) of an emission permit does not provide "final" authority 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 No. 3, Part B, Section 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. If the APCD so determines, it will provide written documentation of such final approval, which does constitute "final" authority to operate. ***Compliance with the permit conditions must be demonstrated within 180 days after commencement of operation.***
6. **THIS PERMIT AUTOMATICALLY EXPIRES IF** you (1) do not commence construction or operation within 18 months after either the date of issuance of this permit or the date on which such construction or activity was scheduled to commence as set forth in the permit, whichever is later; (2) discontinue construction for a period of 18 months or more; or (3) do not complete construction within a reasonable time of the estimated completion date. Extensions of the expiration date may be granted by the APCD upon a showing of good cause by the permittee prior to the expiration date.
7. **YOU MUST** notify the APCD at least thirty days (fifteen days for portable sources) prior to commencement of the permitted operation or activity. Failure to do so is a violation of Section 25-7-114.5(12)(a), C.R.S. and AQCC Regulation No. 3, Part B, Section III.G.1., and can result in the revocation of the permit. *You must demonstrate compliance with the permit conditions within 180 days after commencement of operation as stated in condition 5.*
8. Section 25-7-114.7(2)(a), C.R.S. requires that all sources required to file an Air Pollution Emission Notice (APEN) must pay an annual fee to cover the costs of inspections and administration. 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.
9. 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.

Hewlett-Packard
Permit No. 09EP1103
INITIAL APPROVAL

ATTACHMENT A
LIST OF EQUIPMENT COVERED BY THIS PERMIT

AIRS ID	Equipment Description			Remarks
	Make	Model	Serial No.	
012	Cummins	QSK60-G6 NR2	D080170765	Each unit is diesel fuel-fired and rated at 2,919 hp. Each unit is subject to the requirements of NSPS Subpart IIII
			C080168305	
			C080168306	
			C080168307	
			D080170762	
			D080170763	
			D080170764	
			D080172102	
			D080172103	
			B080159858	
			B080160280	
			C080162929	
			C080165455	
			J080212807	
			J080217441	
			TBD	

End of Attachment A