

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



CONSTRUCTION PERMIT

PERMIT NO: 99DG0880

INITIAL APPROVAL

DATE ISSUED: JUNE 22, 2000

ISSUED TO: MCI WorldCom Network Information Center

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

Telecommunication Network hub known as the MCI WorldCom Network Information Center, located at 335 Inverness Drive South, Englewood, in Douglas County, Colorado.

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

Eight (8) Onan Corporation/Cummins QSK60-G6, diesel-fired, internal combustion reciprocating engines rated at 2922.0 horsepower. These emission units power electric generators.

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 3, Part B, IV.E.) (State only enforceable)
3. The manufacturer, model number and serial number of the subject equipment shall be provided to the Division prior to Final Approval. (Reference: Regulation 3, Part B, IV.E.)

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4. Emissions of air pollutants shall not exceed the following limitations (as calculated in the Division's preliminary analysis). (Reference: Regulation 3, Part B, III.A.4.)

Time Frame	% of annual	Particulate Matter (tons)	Particulate Matter < 10 μ m (tons)	Volatile Organic Compounds (tons)	Sulfur Dioxide (tons)	Nitrogen Oxides (tons)	Carbon Monoxide (tons)
Dec-Feb	40	0.6	0.6	1.9	3.0	26.4	6.2
Mar-May	20	0.3	0.3	1.0	1.5	13.2	3.1
Jun-Aug	20	0.3	0.3	1.0	1.5	13.2	3.1
Sep-Nov	20	0.3	0.3	1.0	1.5	13.2	3.1
Annual (12 month rolling total)	100	1.4	1.4	4.8	7.4	66.0	15.6

During the first twelve (12) months of operation, compliance with both the quarterly and annual emission limitations shall be required. After the first twelve (12) months of operation, compliance with only the annual limitations shall be required. Compliance with the annual emission limits shall then 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 shall keep a compliance record on site for Division review.

5. This source shall be limited to the maximum fuel use rate as listed below and all other activities, operational rates and numbers of equipment as stated in the application. Monthly records of the actual production rate shall be maintained by the applicant and made available to the Division for inspection upon request. (Reference: Regulation 3, Part B, III.A.4.)

Time Frame	% of annual	Diesel fuel usage (gallons)
Dec-Feb	40	216,000
Mar-May	20	108,000
Jun-Aug	20	108,000
Sep-Nov	20	108,000
Annual (12 month rolling total)	100	540,000

During the first twelve (12) months of operation, compliance with both the quarterly and annual consumption limitations shall be required. After the first twelve (12) months of operation, compliance with only the annual limitation shall be required. Compliance with the annual production limit shall then 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 shall keep a compliance record on site for Division review.

6. A source compliance test shall be conducted on all engines to measure the emission rate(s) for the pollutants listed below. The test protocol must be in accordance with the requirements of the Air Pollution Control Division Compliance Test Manual and shall be submitted to the Division for review and approval at least thirty (30) days prior to testing. The protocol shall include manufacturer's analysis of emissions at engine maximum and minimum loads, at site specific conditions. Engine operating parameters will be included in the analysis with emissions reported in parts per million dry volume and grams per actual horsepower-hour (g/BHP-Hr.) or pounds per million BTU (lb/MMBTU). No test shall be conducted without prior approval from the Division. Any stack test conducted to show compliance with a quarterly or annual emission limitation shall have the results projected up to the quarterly or annual averaging time by multiplying the test results by the allowable number of operating hours for that averaging time. (Reference: Regulation 3, Part B, IV.H.3.)

Oxides of Nitrogen and Carbon Monoxide, using EPA approved methods.

7. Prior to the stack test being performed, the applicant shall submit to the Division for approval the following:

A compliance plan containing an operational and maintenance plan, along with recordkeeping results, that will outline how the applicant will maintain compliance with the requirements of this permit. The compliance plan shall commence at startup.

8. Prior to final approval being issued, 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 conditions no. 4 and 5 listed above. (Reference: Regulation 3, Part B, IV.B.2.)

9. A revised Air Pollutant Emission Notice (APEN) shall be filed: (Reference: Regulation 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

For VOC sources in ozone non-attainment areas emitting less than 100 tons of VOC 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 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.

NOTE: A one ton per year emission increase will occur when the fuel use rate increase by 5,620 gallons per year.

10. Major stationary source requirements for non-attainment areas shall apply at such time that this source becomes major solely by virtue of a relaxation in any permit condition. Any relaxation that increases the potential to emit above the applicable major stationary source threshold will result in this source being subject to Major Stationary Source requirements of Regulation 3, Part B, Section IV.D.2. This source shall not exceed the major stationary source threshold until compliance with Regulation 3, Part B, IV.D.2. has been achieved.

11. Operating Permit (OP) requirements shall apply to this source at any such time that this source 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, as though construction had not yet commenced on the source.

12. Within one hundred and eighty days (180) after commencement of operation, compliance with the conditions contained on this permit shall 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. (Information on how to certify compliance was mailed with the permit or can be obtained from the Division at 303-692-3209.

13. Construction of this source must commence within 18 months of initial approval permit issuance date or within 18 months of date on which such construction or activity was scheduled to commence as stated in the application. If commencement does not occur within the stated time the permit will expire on DECEMBER 22, 2001
(See General Condition No. 6., Item 1.) (Reference: Regulation 3, Part B, IV.G.4.)

By: Denise M. Onyskiw
Denise M. Onyskiw
Permit Engineer

By: Dennis M. Myers
Dennis M. Myers, P.E.
Construction Permits Unit
Stationary Sources Program
Air Pollution Control Division

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, Upset Conditions and Breakdowns. The permittee shall notify the Division of any upset condition which causes a violation of any emission limit or limits stated in this permit as soon as possible, but no later than two (2) hours after the start of the next working day, followed by written notice to the Division explaining the cause of the occurrence and that proper action has been or is being taken to correct the conditions causing said violation and to prevent such excess emission in the future.
- 3). In accordance with C.R.S. 25-7-114.1, the Air Pollutant Emission Notice (APEN) associated with this permit is valid for a term of five years. A revised APEN shall be submitted no later than 30 days before the five year term expires.
- 4). The emission levels contained in this permit are based on the following emission factors:

Particulate Matter:	0.04 pounds per million Btu of heat input
PM ₁₀ (Particulate Matter < 10µm):	0.04 pounds per million Btu of heat input
Sulfur Dioxide:	0.20 pounds per million Btu of heat input
Nitrogen Oxides:	1.77 pounds per million Btu of heat input
Volatile Organic Compounds:	0.13 pounds per million Btu of heat input
Carbon Monoxide:	0.42 pounds per million Btu of heat input
- 5). This source is classified as a Synthetic minor source for Operating permit and New Source Review applicability
At a : Synthetic Minor Facility

- 6). The following emissions of non-criteria reportable air pollutants are estimated based upon the material consumptions as indicated in Condition No. 5. 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 [LB/YR]</u>
1.	71-43-2	Benzene	1091.4
2.	50-00-0	Formaldehyde	111.0