



**Air Quality
TIER II OPERATING PERMIT
and
PERMIT TO CONSTRUCT**

State of Idaho
Department of Environmental Quality

PERMIT NO.: T2-020029
AIRS FACILITY NO.: 777-00226
CLASS: B
SIC: 1442
UTM COORDINATE (km): PORTABLE

1. PERMITTEE

Nelson Construction Co.

2. PROJECT

Tier II Operating Permit and Permit to Construct

3. MAILING ADDRESS

P.O. Box 16550

CITY

Boise

STATE

ID

ZIP

83715

4. FACILITY CONTACT

Bob Potts

TITLE

Production Manager

TELEPHONE

(208) 343-3051

5. RESPONSIBLE OFFICIAL

Bob Potts

TITLE

Production Manager

TELEPHONE

(208) 343-3051

6. EXACT PLANT LOCATION

Portable

COUNTY

Ada

7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS

Aggregate crushing

8. PERMIT AUTHORITY

This permit is issued according to the *Rules for the Control of Air Pollution in Idaho*, IDAPA 58.01.01.400-470 and IDAPA 58.01.01.200-228. This permit pertains only to emissions of air contaminants, which are regulated by the state of Idaho and to the sources specifically allowed to be operated by this permit. Only the terms and conditions pertaining to Tier II operating permit requirements are subject to the expiration date of this permit.

This permit is not transferable to another person, place, or piece or set of equipment. This permit will expire if construction has not yet begun within two years of its issue date or if construction is suspended for one year.

This permit has been granted on the basis of design information presented in the application and the Idaho Department of Environmental Quality's technical analysis of the supplied information. Changes in design or equipment that result in any change in the nature or amount of emissions may be considered a modification. Modifications are subject to Department review in accordance with IDAPA 58.01.01.200 et seq.

C. STEPHEN ALLRED, DIRECTOR
DEPARTMENT OF ENVIRONMENTAL QUALITY

DATE ISSUED: July 21, 2003

DATE EXPIRES: July 21, 2008

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LIST OF ACRONYMS

ASTM	American Society for Testing and Materials
CFR	Code of Federal Regulations
Department	Department of Environmental Quality
dscf	dry standard cubic feet
EPA	U.S. Environmental Protection Agency
gr	grain (1 lb = 7,000 grains)
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
lb/hr	pound per hour
NO _x	nitrogen oxides
O&M	Operations and Maintenance
PM	particulate matter
PM ₁₀	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
PTC	permit to construct
SIC	Standard Industrial Classification
T/yr	tons per year

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~~1. PERMIT SCOPE~~

~~**Purpose**~~

~~1.1 The purpose of this permit is to limit PM₁₀ emissions from this facility as part of the Northern Ada County PM₁₀ Maintenance Plan.~~

~~1.2 This Tier II operating permit and permit to construct incorporates the following permit:~~

- ~~• PTC No. 777-00226, issued October 15, 2008~~

~~**Regulated Sources**~~

~~1.3 Table 1.1 below lists all sources of emissions that are regulated in this permit.~~

~~**Table 1.1 Sources Of Emissions**~~

Permit Section	Source Description	Emission Control(s)
2	All associated fugitive emissions from sand and aggregate transfers, crusher and screen decks, paved and unpaved haul roads, and wind erosion of stockpiles	Reasonable control
4	Generator	None

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2. FACILITY-WIDE CONDITIONS

The following table contains a summary of requirements that apply generally to emissions units at the facility.

Table 2.1 SUMMARY OF REQUIREMENTS

Permit Condition	Parameter	Permit Limit/ Standard Summary	Applicable Requirements/Reference	Monitoring & Recordkeeping Requirements
2.4	Fugitive dust	Reasonable control	IDAPA 58.01.01.650-651	2.2, 2.3, 2.4
2.5	Odors	Reasonable control	IDAPA 58.01.01.775-776	2.0
2.7	Visible emissions	20% opacity for no more than three minutes in any 60 minute period	IDAPA 58.01.01.625	2.8, 2.12
2.9	Excess emissions	Compliance with IDAPA 58.01.01.130-136	IDAPA 58.01.01.130	2.6, 2.12
2.13	Open burning	Compliance with IDAPA 58.01.01.000-010	IDAPA 58.01.01.600-616	2.12
2.14	Crain loading	Compliance with IDAPA 58.01.01.676-677	IDAPA 58.01.01.076-077	2.7, 2.12
2.17	Fuel oil sulfur content	Compliance with IDAPA 58.01.01.708	IDAPA 58.01.01.728	2.12

~~Fugitive Emissions~~

~~2.1 All reasonable precautions shall be taken to prevent PM from becoming airborne in accordance with IDAPA 58.01.01.650-651. In determining what is reasonable, considerations will be given to factors such as the proximity of dust emitting operations to human habitations and/or activities and atmospheric conditions that might affect the movement of PM. Some of the reasonable precautions include, but are not limited to, the following:~~

- ~~• Use, where practical, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of lands.~~
- ~~• Application, where practical, of asphalt, oil, water, or suitable chemicals to, or covering of dirt roads, material, stockpiles, and other surfaces which can create dust.~~
- ~~• Installation and use, where practical, of hoods, fans, and fabric filters or equivalent systems to enclose and vent the handling of dusty materials. Adequate containment methods should be employed during sandblasting or other operations.~~
- ~~• Covering, where practical, of open-bodied trucks transporting materials likely to give rise to airborne dusts.~~
- ~~• Paving of roadways and their maintenance in a clean condition, where practical.~~
- ~~• Prompt removal of earth or other stored material from streets, where practical.~~

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- ~~2.2 The permittee shall monitor and maintain records of the frequency and the method(s) used (i.e., water, chemical dust suppressants, etc.) to reasonably control fugitive emissions.~~
- ~~2.3 The permittee shall maintain records of all fugitive dust complaints received. The permittee shall take appropriate corrective action as expeditiously as practicable after receipt of a valid complaint. The records shall include, at a minimum, the date each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.~~
- ~~2.4 The permittee shall conduct a weekly facility wide inspection of potential sources of fugitive emissions during daylight hours and under normal operating conditions to ensure that the methods used to reasonably control fugitive emissions are effective. If fugitive emissions are not being reasonably controlled, the permittee shall take corrective action as expeditiously as practicable. The permittee shall maintain records of the results of each weekly fugitive emissions inspection. The records shall include, at a minimum, the date of each inspection and description of the following: the permittee's assessment of the conditions existing at the time fugitive emissions were present (if observed), any corrective action taken in response to the fugitive emissions, and the date the corrective action was taken.~~

~~Odors~~

- ~~2.5 No person shall allow, suffer, cause, or permit the emission of odorous gases, liquids, or solids to the atmosphere in such quantities as to cause air pollution.~~
- ~~2.6 The permittee shall maintain records of all odor complaints received. If the complaint has merit, the permittee shall take appropriate corrective action as expeditiously as practicable. The records shall include, at a minimum, the date each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.~~

~~Visible Emissions~~

- ~~2.7 The permittee shall not discharge any air pollutant to the atmosphere from any point of emission for a period or periods aggregating more than three minutes in any 60-minute period which is greater than 20% opacity as determined by procedures contained in IDAPA 58.01.01.625. These provisions shall not apply when the presence of uncombined water, nitrogen oxides, and/or chlorine gas is the only reason(s) for the failure of the emission to comply with the requirements of this section.~~
- ~~2.8 The permittee shall conduct a weekly facility wide inspection of visible emissions during daylight hours and under normal operating conditions. The visible emissions inspection shall consist of a see/no see evaluation. If any visible emissions are present from any point of emission, the permittee shall either take appropriate corrective action as expeditiously as practicable, employ a progressive control strategy or strategies to mitigate the visible emissions, or perform a Method 9 opacity test in accordance with the procedures outlined in IDAPA 58.01.01.625. If a Method 9 opacity test is required, a minimum of 30 observations shall be recorded when conducting the opacity test. If opacity is greater than 20% for a period or periods aggregating more than three minutes in any 60-minute period, the permittee shall take all necessary corrective action and report the exceedance in its annual compliance certification and in accordance with IDAPA 58.01.01.130-136. Monitoring required to demonstrate compliance with Permit Condition 2.8 shall be conducted in accordance with Permit Condition 2.12.~~

~~Excess Emissions~~

- ~~2.9 The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions due to startup, shutdown, scheduled maintenance, safety measures, upsets, and breakdowns.~~

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~~Reports and Certifications~~

~~2.10 Any reporting required by this permit, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certifications, shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete. Any reporting required by this permit shall be submitted to the following address:~~

~~Air Quality Permit Compliance
Department of Environmental Quality
Boise Regional Office
1445 N. Orchard
Boise, ID 83706~~

~~Any reporting required for New Source Performance Standards shall also be submitted to the EPA at the following address:~~

~~EPA Region 10
Air Operating Permits, OAQ-107
1200 Sixth Ave.
Seattle, WA 98101~~

~~Air Stagnation Advisory Days~~

~~2.11 The permittee shall comply with the Air Pollution Emergency Rule in IDAPA 58.01.01.550-562.~~

~~Monitoring and Recordkeeping~~

2.12 The permittee shall maintain sufficient recordkeeping to ensure compliance with all the terms and conditions of this operating permit. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to Department representatives upon request.

~~Open Burning~~

~~2.13 The permittee shall comply with the requirements of IDAPA 58.01.01.600-610, Rules for Control of Open Burning.~~

~~Fuel-burning Equipment~~ *ck*

2.14 The permittee shall not discharge to the atmosphere from any fuel-burning equipment PM in excess of 0.015 gr/dscf of effluent gas corrected to 3% oxygen by volume for gas, 0.050 gr/dscf of effluent gas corrected to 3% oxygen by volume for liquid, 0.050 gr/dscf of effluent gas corrected to 8% oxygen by volume for coal, and 0.080 gr/dscf of effluent gas corrected to 8% oxygen by volume for wood products.

~~Obligation to Comply~~

~~2.15 Receiving a permit shall not relieve any owner or operator of the responsibility to comply with all applicable local, state, and federal rules and regulations.~~

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~~Sulfur Content~~

~~2.16 No person shall sell, distribute, use, or make available for use any distillate fuel oil containing more than the following percentages of sulfur:~~

- ~~• ASTM Grade No. 1 fuel oil - 0.3% by weight.~~
- ~~• ASTM Grade No. 2 fuel oil - 0.5% by weight.~~

~~Relocation~~

~~2.17 At least 10 days prior to relocating any equipment covered by this permit, the permittee shall register all existing portable equipment using the Department's Portable Equipment Registration and Relocation Form (PERF) available on the Department's Website at: www.ctate.id.us/deg/air/equiprelocat.htm. Each PERF, along with a scaled plot plan of the relocation site, shall be mailed to the following address:~~

~~PERF Processing Unit
Idaho DEQ - Air Quality
1410 N. Hilton
Boise, ID 83706-1255~~

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3. ROCK-CRUSHING PLANT

~~3.1 Process Description~~

~~Rock crushing plants reduce the size of aggregate for various industrial and commercial purposes. Emissions from this rock crushing plant are limited to meet the requirements of the Northern Ada County PM₁₀ Maintenance Plan.~~

~~3.2 Control Description~~

~~The permittee is required to reasonably control fugitive dust at all times. Some methods that may be used to reasonably control fugitive emissions are listed in Permit Condition 2.1.~~

~~Emissions Limits~~

3.3 Emissions Limits

The PM₁₀ emissions from the processes associated in the production of crushed material shall not exceed any corresponding emissions rate limits listed in the appendix of this permit.

~~[PTC No. 777-00226, 10/15/08]~~

~~Operating Requirements~~

3.4 Throughput Limits

The maximum annual quantity of material entering the initial crusher shall not exceed 2,080,000 tons per any consecutive 12-month period.

~~3.5 Opacity Limit~~

~~Emissions emanating from any stack, vent, or other functionally equivalent opening, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60 minute period as required in IDAPA 58.01.01.625. Opacity shall be determined using the procedures contained in IDAPA 58.01.01.625.~~

3.6 Crusher Opacity Limit

The fugitive emissions from portable rock crushers shall not exhibit more than 15% opacity. Opacity shall be determined using the procedures specified in IDAPA 57.01.01.625.

~~[PTC No. 777-00226, 10/15/08]~~

3.7 Transfer Point Opacity Limit

The fugitive emissions from any transfer point on belt conveyors, from each grinding mill, screening operation bucket elevator, belt conveyor bagging operation, storage bin, enclosed truck, or rail car loading, shall not exhibit greater than 10% opacity. Opacity shall be determined using the procedures specified in IDAPA 58.01.01.625.

~~[PTC No. 777-00226, 10/15/08]~~

~~3.8 Paved and Unpaved Roads Opacity Limit~~

~~Fugitive dust emissions from vehicle traffic on any paved or unpaved haul road associated with the rock crushing plant regulated by this permit shall be controlled by water, an environmentally safe chemical soil stabilizer, or equivalent. Control strategies shall be employed whenever visible emissions are observed crossing the permitted facility boundary, as determined using Method 22.~~

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3.9 Number of Crushers and Generators

This crushing facility may operate as a three-or four-crusher facility. The facility shall operate with only one 1250-kilowatt generator.

~~[PTC No. 777-00226, 10/15/98]~~

3.10 Control Strategy

Visible emissions are a trigger that requires initiation of a strategy or strategies to control fugitive dust emission from associated processes involved in the production of crushed material. Visible emissions from any of the associated processes not specifically regulated by this permit shall not exceed 20% opacity for a period or periods aggregating more than one minute in any 60-minute period. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

Monitoring and Recordkeeping Requirements

3.11 Throughput Monitoring

The permittee shall monitor and record the amount material entering the initial crusher each month and for the most recent 12-month period.

~~[PTC No. 777-00226, 10/15/98]~~

3.12 Emissions Monitoring

The facility has the option of operating either as a four-or three-crusher facility. When the facility is operating as a four-crusher facility, the PM₁₀ emissions shall be determined by multiplying the throughput of material passing through the initial crusher by the emission factor of 0.058 pounds of PM₁₀ emissions per ton of material throughput. When the facility is operating as a three-crusher facility, the PM₁₀ emissions shall be determined by multiplying the throughput of material passing through the initial crusher by the emission factor of 0.037 pounds of PM₁₀ emissions per ton of material throughput. The summation of the PM₁₀ emissions of these two operational setups shall not exceed the associated limit stated in the appendix of this permit.

~~3.13 Operations and Maintenance Manual Requirements~~

~~Within 60 days after the date this permit is issued, the permittee shall have developed an O&M manual for rock crushing facility which describes the methods that will be used to control fugitive dust emissions. The manual shall describe the procedures that will be followed to comply with General Provision 2. This manual shall remain onsite at all times and shall be made available to Department representatives upon request.~~

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4. GENERATOR

~~4.1 Process Description~~

~~This rock crushing plant includes a 1250 kilowatt diesel fuel fired generator that provides electrical power when line power is unavailable.~~

~~4.2 Control Description~~

~~Generator emissions are uncontrolled.~~

~~Emissions Limits~~

4.3 Emissions Limits

The NO_x emissions from the generator shall not exceed any corresponding emissions rate limits listed in the appendix of this permit.

Operating Requirements

4.4 Nonattainment Generator Monitoring

When operating in a PM₁₀ nonattainment area as a four-crusher facility, the plant shall not operate more than 6301 hours per year.

~~[PTC No. 777-00226, 10/15/08]~~

When operating in a PM₁₀ nonattainment area as a three-crusher facility, the plant shall not exceed 8535 hours per year.

4.5 Generator Operation

The generator shall only operate while the crusher facility is in operation.

Monitoring and Recordkeeping Requirements

4.6 Generator Monitoring

When operating in a PM₁₀ nonattainment area, the permittee shall monitor and record the generator operating hours to demonstrate compliance with Permit Condition 4.4.

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5. APPENDIX

Table 5.1 EMISSION LIMITS

Nelson Construction Co. Emission Limits^a - Hourly (lb/hr), and Annual^b (T/yr)				
Source Description	Hourly PM₁₀^c Emissions (lb/hr)	Annual PM₁₀^c Emissions (T/yr)	Hourly NO_x Emissions (lb/hr)	Annual NO_x Emissions (T/yr)
Generator	0.64	2	31.2	98.3
All associated process emissions (fugitives included)	NA ^d	18	NA	NA

^a As determined by a pollutant-specific EPA reference method, a Department-approved alternative, or as determined by the Department's emissions estimation methods used in this permit analysis.

^b As determined by multiplying the actual or allowable (if actual is not available) pound-per-hour emission rate by the allowable hours per year that the process(es) may operate(s), or by actual annual production rates.

^c Includes condensibles.

^d NA Not applicable

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6. GENERAL PROVISIONS

1. All emissions authorized herein shall be consistent with the terms and conditions of this permit. The emission of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the *Rules for the Control of Air Pollution in Idaho*, and the Environmental Protection and Health Act, Idaho Code §39-101 et seq.
2. The permittee shall at all times (except as provided in the *Rules for the Control of Air Pollution in Idaho*) maintain and operate in good working order all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable laws for the control of air pollution.
3. The permittee shall allow the Director, and/or his authorized representative(s), upon the presentation of credentials:
 - To enter upon the permittee's premises where an emissions source is located, or in which any records are required to be kept under the terms and conditions of this permit; and
 - At reasonable times, to have access to and copy any records required to be kept under the terms and conditions of this permit, to inspect any monitoring methods required in this permit, and to require stack emissions testing (i.e., performance tests) in conformance with state-approved or accepted EPA procedures when deemed appropriate by the Director.
4. Except for data determined to be confidential under Section 9-342A *Idaho Code*, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the appropriate regional office of the Department of Environmental Quality.
5. Nothing in this permit is intended to relieve or exempt the permittee from compliance with any applicable federal, state, or local law or regulation, except as specifically provided herein.
6. In the event of any change in control or ownership of source(s) from which the authorized emissions emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter; a copy of which shall be forwarded to the Director.
7. This permit shall be renewable on the expiration date, provided the permittee submits any and all information necessary for the Director to determine the amount and type of air pollutants emitted from the equipment for which this permit is granted. Failure to submit such information within 60 days after receipt of the Director's request shall cause the permit to become void.
8. The Director may require the permittee to develop a list of operation and maintenance procedures to be approved by the Department. Such list of procedures shall become a part of this permit by reference, and the permittee shall adhere to all of the operation and maintenance procedures contained therein.
9. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.