



October 28, 2024

Courtney Deporto
Heidelberg Materials
7554 185th Ave, NE, Suite 100
Redmond, WA 98052

RE: Final Air Discharge Permit / Nonroad Engine Permit for Metso Lokotrack Jaw Crusher

Dear Courtney Deporto:

A final determination to issue Air Discharge Permit / Nonroad Engine Permit (ADP/NEP) 24-3667 has been completed for ADP/NEP application CL-3280 pursuant to Section 400-110(4) of the General Regulations for Air Pollution Sources of the Southwest Clean Air Agency (SWCAA). Public notice for ADP/NEP application CL-3280 was published in the permit section of SWCAA's website on October 9, 2024. SWCAA did not receive a request for a public comment period in response to the public notice and has concluded that significant public interest does not exist for this determination. Therefore, a public comment period will not be provided for this permitting action. Electronic copies of ADP/NEP 24-3667 and the associated Technical Support Document are available for public review in the "Recent Air Discharge Permits" section under the "Air Permits" link on SWCAA's website (<http://www.swcleanair.gov>). Original copies are enclosed for your files.

ADP/NEP 24-3667 may be appealed directly to the Pollution Control Hearings Board (PCHB) within thirty (30) days of receipt as provided in Revised Code of Washington (RCW) 43.21B.

If you have any questions or comments, or desire additional information, please contact me or Abraham Apfel at (360) 574-3058, extension 124.

Sincerely,

Uri Papish
Executive Director

UP:AA





**AIR DISCHARGE PERMIT / NONROAD ENGINE PERMIT
24-3667**

Issued: October 28, 2024

**Heidelberg Materials - Crusher
Portable**

SWCAA ID – 1236

REVIEWED BY: 
Clinton Lamoreaux, Chief Engineer



APPROVED BY: 
Uri Papish, Executive Director

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1. Equipment/Activity Identification

ID No.	Equipment/Activity	Control Equipment/Measure
1	Caterpillar Engine, C7.1 (s/n 6J604231)	Ultralow Sulfur (≤ 15 ppm) Diesel
2	Metso Jaw Crusher, Lokotrack LT106, (s/n 182245)	High pressure wet suppression at crusher entrance and screen. Wet suppression at drop points as necessary
3	Haul Roads	Wet suppression as necessary

2. Permit Requirements

The following tables detail the specific requirements of this Air Discharge Permit (ADP) / Nonroad Engine Permit (NEP). In addition to the requirements listed below, equipment at this facility may be subject to other federal, state, and local regulations. The requirement number is identified in the left-hand column. The text of the requirement is contained in the middle column. The emission unit, equipment, or activity to which the requirement applies is listed in the right-hand column.

Emission Limits

Req. No.	Emission Limits	Equipment/ Activity ID No.								
1.	<p>Emissions from crushing and screening operations (blasting, crushing, screening, and haul roads) must not exceed any of the following:</p> <table border="0"> <thead> <tr> <th><u>Pollutant</u></th> <th><u>Emission Limit</u></th> </tr> </thead> <tbody> <tr> <td>PM</td> <td>5.76 tons per year</td> </tr> <tr> <td>PM₁₀</td> <td>1.54 tons per year</td> </tr> <tr> <td>PM_{2.5}</td> <td>0.17 tons per year</td> </tr> </tbody> </table> <p>The long-term emission limits are 12-month rolling sums calculated consistent with Section 6 of the TSD for this ADP/NEP.</p>	<u>Pollutant</u>	<u>Emission Limit</u>	PM	5.76 tons per year	PM ₁₀	1.54 tons per year	PM _{2.5}	0.17 tons per year	2, 3
<u>Pollutant</u>	<u>Emission Limit</u>									
PM	5.76 tons per year									
PM ₁₀	1.54 tons per year									
PM _{2.5}	0.17 tons per year									
2.	Visible emissions from haul roads must not exceed 10% opacity for more than 3 minutes in any one hour period as determined in accordance with SWCAA Method 9 (See Appendix A of SWCAA 400). This does not include in-pit activities by non-road equipment.	3								
3.	Visible emissions from crushing, screening, and conveying equipment must not exceed 0% opacity for more than 3 minutes in any one hour period as determined in accordance with SWCAA Method 9 (See Appendix A of SWCAA 400).	2								

Req. No.	Emission Limits	Equipment/ Activity ID No.
4.	<p>Visible emissions from the Crusher Engine must not exceed 5% opacity for more than 3 minutes in any one hour period as determined in accordance with SWCAA Method 9, except during periods of startup.</p> <p>For the purposes of this requirement, a start-up period ends when the earlier of the following operating events occurs:</p> <ul style="list-style-type: none"> (a) The engine has reached normal operating temperature; or (b) The engine has been operating for 15 minutes. 	1

Operating Limits and Requirements

Req. No.	Operating Limits and Requirements	Equipment/ Activity ID No.
5.	Emission units identified in this Permit must be maintained and operated in total and continuous conformity with the conditions identified in this Permit. SWCAA reserves the right to take any and all appropriate action to maintain the conditions of this Permit, including directing the facility to cease operations until corrective action can be completed.	Facility-wide
6.	Reasonable precautions must be taken at all times to prevent and minimize fugitive emissions from plant operations.	Facility-wide
7.	Material handling points including, but not limited to, conveyor transfer points, aggregate storage piles, and haul roads must be watered as necessary to control fugitive dust emissions.	2, 3
8.	The permittee must notify SWCAA at least 10 business days in advance of relocating approved equipment and must submit operational information (production quantities, hours of operation, location of nearest neighbor, etc.) sufficient to demonstrate that the proposed operation will comply with the emission standards for a new source, and will not cause a violation of applicable ambient air quality standards, and if in a nonattainment area, will not interfere with scheduled attainment of ambient standards.	1, 2
9.	The Jaw Crusher must be equipped with a high pressure water spray system or other wet suppression system reviewed and approved in advance by SWCAA to provide equivalent or superior control of particulate matter emissions. The wet suppression system must be installed to cover the crusher entrance and screen. Each high pressure spray system must be capable of maintaining an operating pressure of 80 psig or greater and must maintain 80 psig or greater during operation. A functional pressure gauge must be maintained onsite and a connection point provided for the purpose of demonstrating compliance with the minimum pressure requirement for high pressure spray systems.	2

Req. No.	Operating Limits and Requirements	Equipment/ Activity ID No.
10.	Each pollution control device (e.g., water spray or fog systems, engine catalysts) must be operated whenever the processing equipment served by that control device is in operation. Control devices must be operated and maintained in accordance with the manufacturer's specifications. Furthermore, control devices must be operated in a manner that minimizes emissions.	1, 2
11.	Spray/fog nozzles in the water spray systems for the Jaw Crusher must be visually inspected once per week when in operation to ensure proper function. Clogged or defective nozzles must be replaced or repaired prior to subsequent operation. Inspections are not required in any week the crusher is not operated.	2
12.	Additional wet suppression must be provided as necessary to control fugitive dust from haul roads, crushing, and material handling equipment in the event that process changes or weather patterns result in insufficient water application to control fugitive dust from plant operations.	2, 3
13.	A nonresettable time totalizer must be installed on the Crusher Engine and used to measure the number of hours the engine operates.	1
14.	Exhaust from the Crusher Engine must be discharged vertically. Any device that obstructs or prevents vertical discharge is prohibited.	1
15.	The Crusher Engine must only be fired on #2 diesel or better. The sulfur content of the fuel fired in engine must not exceed 0.0015% by weight (15 ppm). A fuel certification from the fuel supplier or test results using an appropriate method listed in 40 CFR 60.17 may be used to comply with this requirement.	1

Monitoring and Recordkeeping Requirements

Req. No.	Monitoring and Recordkeeping Requirements	Equipment/ Activity ID No.
16.	With the exception of data logged by a computerized data acquisition system, each record required by this ADP/NEP must include the date and the name of the person making the record entry, at minimum. If a control device or process is not operating, a record must be made to that effect.	Facility-wide
17.	All records required by this ADP/NEP must be kept for a minimum period of no less than three (3) years and must be maintained in a form readily available for inspection by SWCAA representatives.	Facility-wide
18.	Excess emissions and upset conditions must be recorded for each occurrence.	Facility-wide
19.	All air quality related complaints, including odor complaints, received by the permittee and the results of any subsequent investigation or corrective action must be recorded for each occurrence.	Facility-wide

Req. No.	Monitoring and Recordkeeping Requirements	Equipment/ Activity ID No.
20.	<p>The following information must be collected, recorded at the intervals specified below, and maintained readily available on-site for inspection:</p> <ul style="list-style-type: none"> (a) Hours of operation for the engine Recorded monthly (b) Quantity and size of material crushed Recorded monthly (c) Quantity of material screened Recorded monthly (d) Quantity of material blasted Recorded monthly (e) Type and length of haul roads Recorded for each location (f) Quantity of vehicle miles travelled Recorded for each location (g) Visual inspection of spray/fog nozzles Recorded for each occurrence (h) Maintenance of spray/fog nozzles Recorded for each occurrence (i) Equipment relocation (unit, time, place) Recorded for each occurrence (j) Sulfur content of fuel fired in diesel engines Recorded for each delivery (k) Calculated air emissions Recorded annually 	Facility-wide

Emission Monitoring and Testing Requirements

Req. No.	Emission Monitoring and Testing Requirements	Equipment/ Activity ID No.
21.	<p>An initial emissions test must be conducted for the Jaw Crusher. Testing must be completed no later than 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup. For the purposes of this requirement, the 60 and 180 day clocks begin the day this permit is issued or when first operated by the applicant, whichever is later. All emission testing must be conducted in accordance with Appendix A of this Permit and the requirements of 40 CFR 60, Subpart OOO "Standards of Performance for Nonmetallic Mineral Processing Plants." If an emission test meeting the requirements of 40 CFR 60 Subpart OOO has already been performed for this specific unit, submittal of the test report to SWCAA within the timeline described above satisfies this testing requirement.</p>	2

Reporting Requirements

Req. No.	Reporting Requirements	Equipment/ Activity ID No.
22.	<p>Excess emissions must be reported to SWCAA as follows:</p> <ul style="list-style-type: none"> (a) As soon as possible, but no later than twelve (12) hours after discovery for emissions that represent a potential threat to human health or safety; (b) As soon as possible, but no later than forty-eight (48) hours after discovery for emissions which the Permittee wishes to claim as unavoidable pursuant to SWCAA 400-107(1); and (c) No later than thirty (30) calendar days after the end of the month of discovery for all other excess emissions. 	Facility-wide

Req. No.	Reporting Requirements	Equipment/ Activity ID No.
23.	Deviations from permit conditions must be reported no later than thirty (30) days after the end of the month during which the deviation is discovered.	Facility-wide
24.	All air quality related complaints received by the Permittee must be reported to SWCAA within three (3) calendar days of receipt. Complaint reports must include the date and time of the complaint, the name and contact information (if available) for the complainant, the nature of the complaint, and any actions taken by the Permittee to address the complaint.	Facility-wide
25.	The following emission-related information must be reported to SWCAA by March 15 th for the previous calendar year: <ul style="list-style-type: none"> (a) Hours of operation for each engine; (b) Quantity and size of material crushed; (c) Quantity of material screened; (d) Quantity of material blasted; (e) Quantity of vehicle miles travelled; and (f) Air emissions of criteria air pollutants, volatile organic compounds, toxic air pollutants (TAPs), and hazardous air pollutants (HAPs). 	Facility-wide
26.	Emission test results conducted in accordance with Appendix A must be reported to SWCAA in writing within 45 days of test completion.	2

3. General Provisions

Req. No.	General Provisions
A.	For the purpose of ensuring compliance with this ADP/NEP, duly authorized representatives of the Southwest Clean Air Agency must be permitted access to the Permittee's premises and the facilities being constructed, owned, operated and/or maintained by the Permittee for the purpose of inspecting said facilities. These inspections are required to determine the status of compliance with this ADP/NEP and applicable regulations and to perform or require such tests as may be deemed necessary.
B.	The provisions, terms, and conditions of this ADP/NEP bind the Permittee, its officers, directors, agents, servants, employees, successors and assigns, and all persons, firms, and corporations acting under or for the Permittee.
C.	The requirements of this ADP/NEP survive any transfer of ownership of the source or any portion thereof.
D.	This ADP/NEP must be posted conspicuously at or be readily available near the source.
E.	This ADP/NEP will be invalidated, in whole or in part, if construction or installation of any new or modified equipment has not commenced within eighteen (18) months from date of issuance, if construction is discontinued for a period of eighteen (18) months or more without prior SWCAA approval, or if construction is not completed within a reasonable time.

Req. No.	General Provisions
F.	This ADP/NEP does not supersede requirements of other agencies with jurisdiction and further, this ADP/NEP does not relieve the Permittee of any requirements of any other governmental agency. In addition to this ADP/NEP, the Permittee may be required to obtain permits or approvals from other agencies with jurisdiction.
G.	Compliance with the terms of this ADP/NEP does not relieve the Permittee from the responsibility of compliance with SWCAA General Regulations for Air Pollution Sources, previously issued Regulatory Orders, RCW 70A.15, Title 173 WAC or any other applicable emission control requirements, nor from the resulting liabilities and/or legal remedies for failure to comply.
H.	If any provision of this ADP/NEP is held to be invalid, all unaffected provisions of the ADP/NEP will remain in effect and be enforceable.
I.	No change in this ADP/NEP will be made or be effective except as may be specifically set forth by written order of the Southwest Clean Air Agency upon written application by the Permittee for the relief sought.
J.	The Southwest Clean Air Agency may, in accordance with RCW 70A.15, impose such conditions as are reasonably necessary to ensure the maintenance of compliance with the terms of this ADP/NEP, the Washington Clean Air Act, and the applicable rules and regulations adopted under the Washington Clean Air Act.
K.	For the purposes of establishing if a condition of this ADP/NEP has been violated or is being violated, nothing in this ADP/NEP precludes the use, including the exclusive use, of any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test procedures or methods had been performed.

Appendix A

Emission Testing Requirements

Jaw Crusher

1. Introduction:

The purpose of this performance testing requirement is to demonstrate compliance with the visual emissions limitations of this Permit and 40 CFR 60, Subpart OOO.

2. Testing Requirements:

- a. **Testing Schedule.** Emission testing must be performed within 60 days of achieving maximum production rate, but not later than 180 days after permit issuance for each affected facility that has not previously been tested consistent with the requirements of 40 CFR 60.8 and 60.675. If an affected facility is not in SWCAA's jurisdiction within this time frame or leaves SWCAA's jurisdiction within this time frame, emission testing must be conducted within 60 days of coming into, or returning to, SWCAA's jurisdiction.
- b. **Test Plan.** A comprehensive test plan must be submitted to SWCAA for review and approval at least 10 business days prior to each test. SWCAA personnel must be informed of the proposed test date and location at least 5 business days prior to testing so that a representative may be present during testing.
- c. **Test Location.** Visual observations must be made at each affected rock crusher, aggregate screen and conveyor transfer point associated with affected crushers and screens.
- d. **Test Runs / Reference Methods.** A minimum of 30 minutes of observations must be conducted as required by 40 CFR 60.675(c)(3) using the sampling method identified below.

<u>Constituent</u>	<u>Reference Test Method</u>
Opacity	EPA Method 9

3. Source Operation:

- a. A complete record of production related parameters including production rate, size of product being processed, startups, shutdowns, and adjustments must be kept during emissions testing to correlate operations with emissions and must be recorded in the test results report.
- b. Source operations during the emissions test must be representative of maximum intended operating conditions.

4. Reporting Requirements:

- a. Opacity observation data must be reduced and analyzed using the protocols in EPA Method 9 and SWCAA Method 9.
- b. Compliance must be determined by comparing the reduced opacity data with the visible emission limits contained in this Permit and 40 CFR 60, Subpart OOO.

Appendix A
Emission Testing Requirements
Jaw Crusher

- c. Unless otherwise directed by SWCAA, a final test report must be prepared and submitted to SWCAA within 45 calendar days of test completion and, at a minimum, must contain the following information:
- (1) A description of the source including manufacturer, model number and design capacity of the equipment, and the location of the sample ports or test locations;
 - (2) Time and date of the test and identification and qualifications of the personnel involved;
 - (3) A summary of results, reported in units and averaging periods consistent with the applicable emission standard or limit;
 - (4) A summary of control system or equipment operating conditions;
 - (5) A summary of production related parameters cited in Section 3;
 - (6) A description of the test methods or procedures used including all field data, quality assurance/quality control procedures and documentation;
 - (7) A description of the analytical procedures used including all laboratory data, quality assurance/quality control procedures and documentation;
 - (8) Copies of field data and example calculations;
 - (9) Chain of custody information;
 - (10) Discussion of any abnormalities associated with the results; and
 - (11) A statement signed by the senior management official of the testing firm certifying the validity of the source test report.

5. Changes to Testing Requirements:

The emission test must be conducted as specified in the sections above. The Permittee may submit a written request to SWCAA for approval of minor modifications to the requirements above or to the testing schedule. Upon review of the request and in accordance with EPA delegation, SWCAA will inform the Permittee in writing of any approved modifications.