



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

1410 North Hilton • Boise, Idaho 83706 • (208) 373-0502
www.deq.idaho.gov

C.L. "Butch" Otter, Governor
John H. Tippets, Director

April 2, 2018

Joseph Smith, Regional Environmental Manager
Knife River Corporation – Mountain West - 00456
4800 Wilkie Rd
Missoula, MT 59808

RE: Facility ID No. 777-00456, Project No. 62031, Knife River Corporation – Mountain West
- 00456
Facility Name Change by Permit to Construct Revision

Dear Mr. Smith:

The Department of Environmental Quality (DEQ) is issuing Permit to Construct (PTC) No. P-2009.0047, Project 62031 to change the name of the facility from Knife River, Inc. 777-00456 to Knife River Corporation – Mountain West - 00456. This PTC is issued in accordance with IDAPA 58.01.01.209.04 of the Rules for the Control of Air Pollution in Idaho and is based on the certified information received on March 26, 2018. The facility name change is based on the following information:

Previous Facility Information

Permittee:	Knife River, Inc. 777-00456
Mailing Address:	4055 Professional Way, Idaho Falls, ID 83402
Facility Location:	Portable
Facility Contact:	Jim Trull, Operations Manager
Phone Number:	(208) 941-0869
E-mail Address:	jim.trull@kniferiver.com
Responsible Official:	Jim Trull, Operations Manager
Phone Number:	(208) 941-0869

Updated Facility Information

Permittee:	Knife River Corporation – Mountain West - 00456
Mailing Address:	4800 Wilkie Rd., Missoula, MT 59808
Facility Location:	Portable
Facility Contact:	Joseph Smith, Regional Environmental Manager
Phone Number:	(406) 876-4637
E-mail Address:	joe.smith@kniferiver.com
Responsible Official:	Joseph Smith, Regional Environmental Manager
Phone Number:	(406) 876-4637

This permit is effective immediately and replaces PTC No. P-2009.0047, issued July 9, 2009. This permit does not release Knife River Corporation – Mountain West - 00456 from compliance with all other applicable federal, state, or local laws, regulations, permits, or ordinances.

In order to fully understand the compliance requirements of this permit, DEQ highly recommends that you schedule a meeting with Tom Krinke, AQ Compliance Officer, at (208) 373-0419 to review and discuss the terms and conditions of this permit. Should you choose to schedule this meeting, DEQ recommends that the following representatives attend the meeting: your facility's plant manager, responsible official, environmental contact, and any other staff responsible for day-to-day compliance with permit conditions.

If you have any questions, please contact Kelli Wetzel at (208) 373-0502 or kelli.wetzel@deq.idaho.gov.

Sincerely,



for, Mike Simon
Stationary Source Program Manager
Air Quality Division

Attachment

MS/kw Permit No. P-2009.0047 PROJ 62031

Air Quality

PERMIT TO CONSTRUCT

Permittee Knife River Corporation – Mountain West - 00456
Permit Number P-2009.0047
Project ID 62031
Facility ID 777-00456
Facility Location Portable throughout the state of Idaho

Permit Authority

This permit (a) is issued according to the “Rules for the Control of Air Pollution in Idaho” (Rules), IDAPA 58.01.01.200–228; (b) pertains only to emissions of air contaminants regulated by the State of Idaho and to the sources specifically allowed to be constructed or modified by this permit; (c) has been granted on the basis of design information presented with the application; (d) does not affect the title of the premises upon which the equipment is to be located; (e) does not release the permittee from any liability for any loss due to damage to person or property caused by, resulting from, or arising out of the design, installation, maintenance, or operation of the proposed equipment; (f) does not release the permittee from compliance with other applicable federal, state, tribal, or local laws, regulations, or ordinances; and (g) in no manner implies or suggests that the Idaho Department of Environmental Quality (DEQ) or its officers, agents, or employees assume any liability, directly or indirectly, for any loss due to damage to person or property caused by, resulting from, or arising out of design, installation, maintenance, or operation of the proposed equipment. Changes in design, equipment, or operations may be considered a modification subject to DEQ review in accordance with IDAPA 58.01.01.200–228.

Date Issued April 2, 2018



Kelli Wetzel

Kelli Wetzel, Permit Writer

Darin Pangasinan

for, Mike Simon, Stationary Source Manager

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1 Permit Scope

Purpose

- 1.1 This is a revised permit to construct (PTC) for a portable concrete batch plant facility to change the name from Knife River, Inc. 777-00456 to Knife River Corporation – Mountain West – 00456.
- 1.2 This PTC replaces Permit to Construct No. P-2009.0047, issued on July 9, 2009.

Regulated Sources

Table 1.1 lists all sources of regulated emissions in this permit.

Table 1.1 Regulated Sources

Permit Section	Source	Control Equipment
2	<u>Concrete Batch Plant – Truck Mix</u> Manufacturer: Custom Geneva Steel Maximum capacity: 120 cy/hr Maximum production: 2400 cy/day and 400,000 cy/yr	<u>Cement Storage Silo Baghouse No. 1:</u> Manufacturer: Custom Geneva Steel Model: PJC-300S <u>Cement Supplement Storage Silo Baghouse No. 1:</u> Manufacturer: Custom Geneva Steel Model: SOS 1020 <u>Weigh Batcher Boot</u> <u>Truck Loadout Boot</u> <u>Material Transfer Point Water Sprays or Equivalent</u>
3	<u>Water heater</u> Rating: 0.55 MMBtu/hr Fuel: Natural gas	None

2 Concrete Batch Plant

2.1 Process Description

The facility is a portable truck mix concrete batch plant consisting of aggregate stockpiles, a cement storage silo, a cement supplement (flyash) storage silo, a weigh batcher, and conveyors. The facility combines aggregate, flyash, and cement and transfers the mixture into a truck along with a measured amount of water for in-transit mixing of the concrete. Electric power will be supplied to the facility from the local power grid. A 0.55 MMBtu/hr water heater heats the water prior to use for the concrete.

2.2 Control Device Descriptions

Table 2.1 Concrete Batch Plant Description

Emissions Units / Processes	Control Devices
Cement Storage Silo	Baghouse
Cement Supplement Storage Silo	Baghouse
Weigh Batcher	Boot
Truck Loading	Boot
Materials Transfer (Fugitives)	Water Sprays or Equivalent
Water heater	None

Emission Limits

2.3 Opacity Limit

Emissions from any baghouse stack, or any other stack, vent, or functionally equivalent opening associated with the concrete batch plant, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

2.4 Particulate Matter Emissions Limit

The permittee shall not discharge PM to the atmosphere from any fuel-burning equipment in excess of 0.015 gr/dscf of effluent gas corrected to 3% oxygen by volume for gas.

Operating Requirements

2.5 Water Heater Fuel Use

The water heater shall burn natural gas exclusively.

2.6 Concrete Production Limits and Setback Limits

The concrete production rates shall not exceed the values shown in Table 2.2 below, based on the minimum setback distance at the facility.

The setback distance shall be defined as the minimum distance from any stockpile, silo baghouse stack, truck or central mix loading point, weigh batcher transfer point, or other emission point associated with this concrete batch plant to any area outside of a building where the public has access.

Table 2.2 Concrete Production Limits Based On Available Setback

Minimum Setback (meters):	40 (131 feet)	60 (197 feet)	100 (328 feet)	150 (492 feet)
Daily Concrete Production Limit (cy/day):	1,500	2,400	3,600	4,800
Annual Concrete Production Limit (cy/yr):	300,000	400,000	400,000	400,000

^a cy/yr is defined as cubic yards of concrete per 12-calendar month period.

2.7 Operations and Maintenance Manual

The permittee shall maintain an Operations and Maintenance (O&M) manual for the baghouses, transfer point boots/enclosures, and the transfer point water sprays. The O&M manual shall describe the procedures that will be followed to comply with General Provision 3.2 and the manufacturer specifications for the baghouses. The manual shall contain, at a minimum, requirements for monthly inspections of the baghouses during each month of operation. The inspections shall include, but not be limited to, checking that the bags have structural integrity, are appropriately secured in place, and are not plugged. The manual shall contain procedures for inspecting and maintaining transfer point boots/enclosures and for operating water sprays (or equivalent control method) to ensure that fugitive dust emissions from transfer points are reasonably controlled. The manual shall remain at the concrete batch plant at all times and shall be made available to DEQ representatives upon request.

2.8 Emissions Control Operating Requirement

The permittee shall operate the baghouses and the water sprays (or equivalent control method) in accordance with the O&M manual.

2.9 Reasonable Control of Fugitive Emissions

All reasonable precautions shall be taken to prevent particulate matter from becoming airborne, in accordance with IDAPA 58.01.01.650-651. In determining what is reasonable, consideration 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, 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, when 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.

Monitoring and Recordkeeping Requirements

2.10 Concrete Production Monitoring

The permittee shall monitor and record the daily (when the concrete batch plant is operated that day), monthly (when the concrete batch plant is operated that month), and annual concrete production to demonstrate compliance with Permit Condition 2.6. Annual production shall be determined by summing each monthly production total over the previous consecutive 12-month period.

2.11 Setback Monitoring

The permittee shall physically measure and record the minimum setback distance:

- Each time the concrete batch plant is relocated,
- Any time the facility layout is changed in such a way that the minimum setback distance is reduced compared to previous operations at that location.

Information recorded shall include, but not be limited to, a brief description of the nearest distance to any area where the general public has access, and the minimum setback distance in meters or feet to an accuracy of plus or minus 1.8 meters (6 feet).

2.12 Visible Emissions/Opacity Monitoring

Each month that the facility is operated, the permittee shall conduct a facility-wide inspection of potential sources of visible emissions, including all baghouse stacks, during daylight hours and under normal operating conditions. The inspection shall consist of a see/no see evaluation for each potential source of visible emissions. If any visible emissions are present from any point of emission, the permittee shall either take appropriate corrective action as expeditiously as practicable, or perform a Method 9 opacity test in accordance with the procedures outlined in IDAPA 58.01.01.625. 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 accordance with IDAPA 58.01.01.130-136. The permittee shall maintain records of the results of each visible emission inspection and each opacity test when conducted. The records shall include, at a minimum, the date and results of each inspection and test and a description of the following: the permittee's assessment of the conditions existing at the time visible emissions are present (if observed), any corrective action taken in response to the visible emissions, and the date corrective action was taken.

2.13 Fugitive Dust Monitoring

Each day that the facility is operated, the permittee shall conduct a 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 fugitive emissions inspection. The records shall include, at a minimum, the date of each inspection and a 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.

Each time fugitive dust emissions trigger correction of a dust control strategy or implementation of additional dust control strategies, the permittee shall monitor and record the trigger, the corrective action used, and the results achieved from the use of that control strategy or strategies.

2.14 Baghouse Monthly Inspections

The Permittee shall maintain records of the results of each baghouse/filter system inspection in accordance with General Provision 3.10. The records shall include a description of whether visible emissions were present, and if visible emissions were present, a description of the corrective action that was taken.

Nonattainment Areas

2.15 Nonattainment Area Operations

The permittee shall not move and operate any equipment authorized by this permit to any air quality non-attainment area in the State of Idaho.

Co-location

2.16 Co-located Operations

Under this permit, this emission source may not co-locate with any other source of emissions, including a portable rock-crushing plant, portable hot-mix asphalt plant, portable concrete batch plant, or electrical generator set. An emission source shall be considered to be co-located if the nearest distance between this emission source and any other emission source (not including roads) is less than 656 feet.

Under another permit, co-location of this emission source is allowed if and only if it co-locates with an emission source that has a permit to construct that expressly allows for the co-location of this type of emission source, and if this emission source can meet the requirements specified in that permit (e.g. this source is determined to be "equivalent" if the permit allows an equivalent source to be operated). The terms and conditions of the permit to construct allowing co-location shall govern.

Reporting Requirements

2.17 Relocation

At least 10 days prior to relocation of any equipment covered by this permit, the permittee shall submit a scaled plot plan and a complete Portable Equipment Relocation Form (PERF) in accordance with IDAPA 58.01.01.500, to the following address or fax number:

PERF Processing Unit
DEQ – Air Quality
1410 N. Hilton
Boise, ID 83706-1255
Ph.: (208) 373-0502
Fax: (208) 373-0340

The scaled plot plan shall show the location of any emissions source associated with the concrete batch plant, and distances to any area outside of a building where the general public has access, including property boundaries.

3 General Provisions

General Compliance

3.1 The permittee has a continuing duty to comply with all terms and conditions of this permit. All emissions authorized herein shall be consistent with the terms and conditions of this permit and the "Rules for the Control of Air Pollution in Idaho." The emissions 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, the "Rules for the Control of Air Pollution in Idaho," and the Environmental Protection and Health Act (Idaho Code §39-101, et seq.)

[Idaho Code §39-101, et seq.]

3.2 The permittee shall at all times (except as provided in the "Rules for the Control of Air Pollution in Idaho") maintain in good working order and operate as efficiently as practicable all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable Idaho laws for the control of air pollution.

[IDAPA 58.01.01.211, 5/1/94]

3.3 Nothing in this permit is intended to relieve or exempt the permittee from the responsibility to comply with all applicable local, state, or federal statutes, rules, and regulations.

[IDAPA 58.01.01.212.01, 5/1/94]

Inspection and Entry

3.4 Upon presentation of credentials, the permittee shall allow DEQ or an authorized representative of DEQ to do the following:

- Enter upon the permittee's premises where an emissions source is located, emissions-related activity is conducted, or where records are kept under conditions of this permit;
- Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;
- Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
- As authorized by the Idaho Environmental Protection and Health Act, sample or monitor, at reasonable times, substances or parameters for the purpose of determining or ensuring compliance with this permit or applicable requirements.

[Idaho Code §39-108]

Construction and Operation Notification

3.5 This permit shall expire if construction has not begun within two years of its issue date, or if construction is suspended for one year.

[IDAPA 58.01.01.211.02, 5/1/94]

3.6 The permittee shall furnish DEQ written notifications as follows:

- A notification of the date of initiation of construction, within five working days after occurrence; except in the case where pre-permit construction approval has been granted then notification shall be made within five working days after occurrence or within five working days after permit issuance whichever is later;
- A notification of the date of any suspension of construction, if such suspension lasts for one year or more; and

- A notification of the initial date of achieving the maximum production rate, within five working days after occurrence - production rate and date.

[IDAPA 58.01.01.211.01, 5/1/94]

- A notification of the anticipated date of initial start-up of the stationary source or facility not more than sixty days or less than thirty days prior to such date; and
- A notification of the actual date of initial start-up of the stationary source or facility within fifteen days after such date.

[IDAPA 58.01.01.211.03, 5/1/94]

Performance Testing

3.7 If performance testing (air emissions source test) is required by this permit, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test date or shorter time period as approved by DEQ. DEQ may, at its option, have an observer present at any emissions tests conducted on a source. DEQ requests that such testing not be performed on weekends or state holidays.

3.8 All performance testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, at least 30 days prior to conducting any performance test, the permittee is encouraged to submit a performance test protocol to DEQ for approval. The written protocol shall include a description of the test method(s) to be used, an explanation of any or unusual circumstances regarding the proposed test, and the proposed test schedule for conducting and reporting the test.

3.9 Within 60 days following the date in which a performance test required by this permit is concluded, the permittee shall submit to DEQ a performance test report. The report shall include a description of the process, identification of the test method(s) used, equipment used, all process operating data collected during the test period, and test results, as well as raw test data and associated documentation, including any approved test protocol.

[IDAPA 58.01.01.157, 4/5/00 and 4/11/15]

Monitoring and Recordkeeping

3.10 The permittee shall maintain sufficient records to ensure compliance with all of the terms and conditions of this permit. Monitoring records shall include, but not be limited to, the following: (a) the date, place, and times of sampling or measurements; (b) the date analyses were performed; (c) the company or entity that performed the analyses; (d) the analytical techniques or methods used; (e) the results of such analyses; and (f) the operating conditions existing at the time of sampling or measurement. 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 DEQ representatives upon request.

[IDAPA 58.01.01.211, 5/1/94]

Excess Emissions

- 3.11 The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130–136 for excess emissions due to start-up, shut-down, scheduled maintenance, safety measures, upsets, and breakdowns.

[IDAPA 58.01.01.130–136, 4/5/00]

Certification

- 3.12 All documents submitted to DEQ—including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certification—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.

[IDAPA 58.01.01.123, 5/1/94]

False Statements

- 3.13 No person shall knowingly make any false statement, representation, or certification in any form, notice, or report required under this permit or any applicable rule or order in force pursuant thereto.

[IDAPA 58.01.01.125, 3/23/98]

Tampering

- 3.14 No person shall knowingly render inaccurate any monitoring device or method required under this permit or any applicable rule or order in force pursuant thereto.

[IDAPA 58.01.01.126, 3/23/98]

Transferability

- 3.15 This permit is transferable in accordance with procedures listed in IDAPA 58.01.01.209.06.

[IDAPA 58.01.01.209.06, 4/11/06]

Severability

- 3.16 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.

[IDAPA 58.01.01.211, 5/1/94]