



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
MADISON COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 01-08473

DATE: 10/14/2003

Buckeye Ready Mix Plant 18
William Feltz
PO Box 398
Columbus, OH 432160398

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA

CDO



**Permit To Install
Terms and Conditions**

**Issue Date: 10/14/2003
Effective Date: 10/14/2003**

FINAL PERMIT TO INSTALL 01-08473

Application Number: 01-08473
APS Premise Number: 0149000121
Permit Fee: **\$400**
Name of Facility: Buckeye Ready Mix Plant 18
Person to Contact: William Feltz
Address: PO Box 398
Columbus, OH 432160398

Location of proposed air contaminant source(s) [emissions unit(s)]:

**State Route 29
West Jefferson, Ohio**

Description of proposed emissions unit(s):

Portable diesel powered electricity generator.

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

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representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

7. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

8. Termination of Permit to Install

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

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Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

10. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

13. Source Operation and Operating Permit Requirements After Completion of Construction

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

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Facility ID: 0149000121

Emissions Unit ID: **B002**

14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
NO _x	24.3
CO	5.23
SO ₂	2.76
PM	1.71
OC	1.93

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
B002 - Portable 550 HP Diesel Powered Electric Generator	OAC rule 3745-17-11(B)(5)(b) OAC rule 3745-31-05(A)(3) OAC rule 3745-17-07(A)(1) OAC rule 3745-18-06(G)

Bucke

PTI A

Issued: 10/14/2003

Emissions Unit ID: **B002**

Applicable Emissions
Limitations/Control Measures

Nitrogen oxide (NO_x) emissions shall not exceed 16.9 lbs/hour and 24.3 tons/year.

Carbon monoxide (CO) emissions shall not exceed 3.60 lbs/hour and 5.23 tons/year.

Volatile Organic Compound (VOC) emissions shall not exceed 1.34 lb/hour and 1.93 tons/year.

Sulfur Dioxide (SO₂) emissions shall not exceed 2.22 lbs/hour and 2.76 tons/year.

Particulate emissions shall not exceed 1.19 lbs/hour and 1.71 tons/year

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1), 3745-17-11(B)(5)(b) and OAC rule 3745-18-06(G).

See section B.1

The particulate emissions from the engine's exhaust shall not exceed 0.31 pound per million Btu of actual heat input.

Visible particulate emissions shall not exceed 20% opacity, as a

six(6)-minute average, except as provided by the rule.

The sulfur dioxide from the engine's exhaust shall not exceed 0.50 pound per million Btu of actual heat input.

Bucke**PTI A****Issued: 10/14/2003**Emissions Unit ID: **B002****2. Additional Terms and Conditions****2.a** None**B. Operational Restrictions**

1. The permittee shall burn only no. 2 fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet a sulfur content which is equal to or less than 0.5 weight percent sulfur on an "as burned" basis.
3. This emissions unit shall operate for no more than 2,875 hours during four consecutive calendar quarters.

C. Monitoring and/or Recordkeeping Requirements

1. For each day during which the permittee burns a fuel other than no. 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of any oil that is received for burning in this emission unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon approval by the Ohio EPA, Central District Office.
3. For each shipment of any oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).)
4. The permittee shall measure and record the operating time of this emissions unit during each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each day when a fuel other than no. 2 fuel oil fuel was burned in the emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit quarterly deviation (excursion) reports that identify each day during which records were not maintained on the amount of no. 2 fuel oil combusted in the emissions unit.
3. The permittee shall notify the Ohio EPA, Central District Office, in writing, of any record which shows an exceedance of the sulfur content limitation specified in Section A.1. The notification shall include a copy of such record and shall be sent to the Ohio EPA, Central District Office within 30 days after the deviation occurs.
4. The permittee shall notify the Ohio EPA, Central District Office, in writing, when the operating hours for a quarter, when added to the the operating hours for the three previous calendar quarters, exceeds 2,875. Such report shall be submitted within 30 days after the end of the calendar quarter.

E. Testing Requirements

1. Compliance with the emission limitations and of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation: NO_x emissions shall not exceed 16.9 lbs/hour.

Applicable Compliance Method: Compliance shall be determined by multiplying the maximum fuel input capacity of the emissions unit (28 gallons/hour) by the heat content of the fuel and by 4.41 lbs NO_x per MMBTU (emissions factor from AP-42). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 7E.

- b. Emission Limitation: CO emissions shall not exceed 4.56 lbs/hour.

Applicable Compliance Method: Compliance shall be determined by multiplying the maximum fuel input capacity of the emissions unit (28 gallons/hour) by the heat content of the fuel and by 0.95 lbs CO per MMBTU (emissions factor from AP-42). If required, the permittee shall demonstrate compliance with this emission limitation in accordance

Emissions Unit ID: **B002**

with 40 CFR Part 60, Appendix A, Method 10.

- c. Emission Limitation: VOC emissions shall not exceed 1.68 lb/hour.

Applicable Compliance Method: Compliance shall be determined by multiplying the maximum fuel input capacity of the emissions unit (28 gallons/hour) by the heat content of the fuel and by 0.35 lbs OC per MMBTU (emissions factor from AP-42). If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 18.

- d. Emission Limitation: SO₂ emissions shall not exceed 1.92 lbs/hour.

Applicable Compliance Method: Compliance shall be determined by multiplying the maximum fuel input capacity of the emissions unit (28 gallons/hour) by the heat content of the fuel and by 0.50 lbs SO₂ per MMBTU. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6C.

- e. Emission Limitations: The particulate emissions from the engine's exhaust shall not exceed 0.31 pound per million Btu of actual heat input.

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 5.

- f. Emission Limitation: Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

- g. Emission Limitations: NO_x emissions shall not 24.3 tons/year, CO emissions shall not exceed 5.23 tons/year, VOC emissions shall not exceed 1.93 tons/year, and SO₂ emissions shall not exceed 2.76 tons/year.

Applicable Compliance Method: Compliance with these annual limitations shall be assumed as long as compliance with the hourly limitation is maintained (the annual limitations were calculated by multiplying by 8760, and then dividing by 2000).

- h. Emission Limitations: Particulate emissions shall not 1.71 tons/year.

Applicable Compliance Method: Compliance with the particulate annual limitation shall be assumed as long as the hourly particulate emissions are below 0.31 lbs/MMBTU, as specified in OAC rule 3745-17-11(B)(5)(b) (the annual limitation was calculated by multiplying the maximum heat input capacity of 3.836 MMBTU/hr by 0.31 lbs PM/MMBTU and then multiplying by 8760 before dividing by 2000).

- i. Emission Limitation: The quality of the no. 2 fuel oil burned in this emissions unit shall meet a sulfur content which is equal to or less than 0.5 weight percent sulfur on an "as burned" basis.

Applicable Compliance Method: Compliance shall be demonstrated by the record keeping requirements pursuant to section C.4 above.

F. Miscellaneous Requirements

None