

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT - REVISED

PERMITTEE

Bunge Milling Inc.
Attn: Mickey Lay
321 East North Street
Danville, Illinois 61832

Application No.: 99100012

I.D. No.: 183020ABT

Applicant's Designation: S.O. 115-06

Date Received: May 6, 2003

Subject: Tail Stock Dryer

Date Issued: July 21, 2003

Expiration Date: October 1, 2007

Location: 321 East North Street, Danville

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of an expansion of the dry corn mill, including a new tail stock dryer controlled by baghouse 115-04 and additional grain handling and process equipments controlled by baghouses and other control as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This federally enforceable state operating permit is issued to limit the increase in emissions from the expansion of the dry corn mill to less than major modification thresholds i.e., 25 tons/year of particulate matter (PM) and 15 tons/year of particulate matter less than 10 microns (PM₁₀). As a result the expansion of the corn mill process is not a major modification. The change in emissions, as limited by the conditions of this permit, is described in Attachments A and B.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- 2a. The dry corn mill is subject to 35 IAC 212.321, which provides that the emission of particulate matter (PM) into the atmosphere in any one hour period from any process emission unit or group of similar emission units shall not exceed the allowable emission rates specified in subsection (c) of 35 IAC 212.321 [35 IAC 212.321 (a)]. For the purpose of applying this emission standard, all emission units controlled by a common control device shall be considered similar emission units.
- b. The dry corn mill is subject to 35 IAC 212.123(a), which provides that the Permittee shall not cause or allow the emission of smoke or other PM, with an opacity greater than 30 percent into the atmosphere from any emission unit.
- c. The dry corn mill is subject to 35 IAC 212.301, which provides that the emissions of fugitive particulate matter from any emission unit, including material handling or storage activity, shall not be visible by an observer looking general toward the zenith at a point beyond property line of the source.

3. The throughput of the dry corn mill shall not exceed 100,000 bushels/day, monthly average.
- 4a.
 - i. The tail stock dryer shall only be heated by steam and shall not be equipped with direct-fired fuel burners.
 - ii. Emissions of PM and PM₁₀ from the thru stock and tail stock dryer and other units controlled by baghouse 115-04 combined shall not exceed 1.24 lb/hr and 5.4 tons/year.
- b.
 - i. Emissions of PM and PM₁₀ from emission units other than the tail stock dryer shall be controlled with fabric filter to comply with the following emission rates based on the type of unit:

<u>Pollutant</u>	<u>Whole Corn (Elevators)</u>	<u>Whole Corn (Mill)</u>	<u>Bran</u>	<u>Milled Corn</u>
PM (gr/dscf)	0.002	0.001	0.00042	0.00047
PM ₁₀ (gr/dscf)	0.002	0.001	0.00073	0.00067

- ii. Emissions of PM and PM₁₀ from other emission units in the dry corn mill shall not exceed the applicable limits in Attachment A and B.
- c. These Conditions in this permit are intended to assure that the increase in emissions from expansion of the dry corn mill is not significant pursuant to the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21.
5. At all times, the Permittee shall, maintain and operate emission units in the dry corn mill, including associated control devices, in a manner consistent with good air pollution control practice for minimizing emissions.
6. This permit does not revise or relax any other requirements contained in the Operating Permit 72121261 for the existing units in the Corn Processing Operations including any associated requirements for monitoring, recordkeeping or reporting.
- 7a. Upon written request from the Illinois EPA, the Permittee shall at his own expense, conduct test for PM and PM₁₀ emission and opacity in accordance with the applicable test methods and procedures as identified below.

Location of Sample Points	USEPA Method 1
Gas Flow and Velocity	USEPA Method 2
Flue Gas Weight	USEPA Method 3
Moisture	USEPA Method 4
Particulate Matter (PM)	USEPA Method 5
Particulate Matter (PM ₁₀)	USEPA Method 201A and 202
Opacity	USEPA Method 9

- b. The Illinois EPA shall be notified prior to these tests to enable the Illinois EPA to observe these tests. Notification of the expected date of testing shall be submitted a minimum of 30 days prior to the expected date. Notification of the actual date and expected time of testing shall be submitted a minimum of 5 working days prior to the actual date of the test. The Illinois EPA may at its discretion accept notifications with shorter advance notice provided that the Illinois EPA will not accept such notifications if it interferes with the Illinois EPA's ability to observe testing.
- c. At least 60 days prior to the actual date of testing, a written test plan shall be submitted to the Illinois EPA for review. This plan shall describe the specific procedures for testing, including as a minimum:
 - i. The person(s) who will be performing sampling and analysis and their experience with similar tests.
 - ii. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of maximum emissions and the means by which the operating parameters for the emission unit and any control equipment will be determined.
 - iii. The specific determinations of emissions and operation, which are intended to be made, including sampling and monitoring locations.
 - iv. The test method(s) that will be used, with the specific analysis method, if the method can be used with different analysis methods.
 - v. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with justification.
- d. Copies of the Final Reports(s) for these tests shall be submitted to the Illinois EPA within 14 days after the test results are compiled and finalized. The Final Report shall include as a minimum:
 - i. A summary of results.
 - ii. General information.
 - iii. Description of test method(s), including description of sample points sampling train, analysis equipment, and test schedule.
 - iv. Detailed description of test conditions, including:
 - A. Process information, e.g., equipment feed rate.
 - B. Control equipment information, i.e., equipment condition and operating parameters during testing.

- v. Data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration.
- 8a. The Permittee shall keep the following operation records for the dry corn mill:
 - i. Throughput (bushels/day monthly average) based upon the daily corn mill production input.
 - b. The Permittee shall keep an inspection and maintenance log for the tail stock dryer and associated control system;
 - c. The Permittee shall keep the following records related to emissions:
 - i. The maximum emission of PM and PM₁₀ (pound/hour) from each emission unit or group of emission units controlled by a single control device, considering maximum exhaust flow and nominal exhaust loading, with supporting documentation.
 - ii. An estimate of excess PM and PM₁₀ emissions from each incident when a unit did not comply with the limits required in this permit;
 - ii. Annual PM and PM₁₀ emission based on the throughput and the applicable emission factors and formulas with supporting calculations.
- 9. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least five years from the date of entry and shall be made available for inspection and copying by the Illinois EPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA request for records during the course of a source inspection.
- 10. If there is an exceedance of the requirements of this permit as determined by the records required by this permit or by other means, the Permittee shall submit a report to the Illinois EPA's within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
- 11. Two copies of required reports and notifications concerning emissions equipment operation or performance testing shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

Telephone: 217/782-5811 Facsimile: 217/524-4710

and one copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
2009 Mall Street
Collinsville, Illinois 62234
Telephone: 618/346-5120 Facsimile: 618/346-5155

Please note that this Federally Enforceable State Operating Permit has been revised to address the replacement of cyclones 115-06 with the baghouse 115-04, pursuant to Construction Permit 02080017, with an accompanying decrease in particulate matter emissions.

The Permittee should update their CAAPP application to include this change at the source by submitting form 505-CAAPP - "Supplement to CAAPP Application" along with all other appropriate information to accomplish this.

If you have any questions on this, please call Ricardo Ng at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

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cc: Illinois EPA, FOS Region 3
Illinois EPA, Compliance Section
Lotus Notes

ATTACHMENT A
CHANGE IN PM EMISSIONS LIMITATIONS

<u>Emission Units¹</u>	<u>Hourly Limit</u> (Lb/Hr)	<u>Annual² Limit</u> (Tons/Yr)
<u>Elevator</u>		
West Headhouse Gallery Vacuum	0.009	0.038
Track six at Grade Vacuum	0.009	0.038
301-01	0.943	4.130
301-02	0.316	1.384
301-04	0.614	2.691
304-02	0.461	2.019
<u>Corn Mill House Vacuum</u>		
104-01	0.006	0.026
105-03	0.006	0.026
<u>Cleaning</u>		
110-08	0.016	0.071
110-09	0.351	1.539
115-02	0.492	2.154
<u>Corn Mill Preparation</u>		
101-01	0.145	0.635
101-02	0.121	0.529
103-04	0.040	0.176
103-05		(Discharge to 101-02)
105-04	0.280	1.226
105-06	0.121	0.529
115-03	0.162	0.710
115-04	1.24	5.4
115-05	0.003	0.015
115-06	Eliminated Pursuant to Construction Permit 02080017	
<u>Corn Milling</u>		
101-04	0.151	0.662
101-05	0.088	0.385
103-04		(See Corn Mill Preparation)
103-05		(See Corn Mill Preparation)
105-04		(See Corn Mill Preparation)
105-05	0.169	0.741
105-06		(See Corn Mill Preparation)
109-01	0.054	0.235
109-02	0.052	0.229

<u>Emission Units</u> ¹	<u>Hourly Limit</u> (Tons/Yr)	<u>Annual</u> ² <u>Limit</u> (Tons/Yr)
<u>Bran Milling</u>		
101-01		(See Corn Mill Preparation)
103-06	0.004	0.015
109-03	0.022	0.098
109-04	0.008	0.035
<u>Bins</u>		
104-02	0.145	0.635
105-06		(See Corn Mill Preparation)
<u>Packing and Loading</u>		
103-06		(See Bran Milling)
104-02		(See Bins)
105-10	0	0
110-04	0.007	0.029
110-05	0.014	0.060
110-07	0.018	0.078
111-34	0.005	0.022
115-01	0.181	0.794
<u>Reprocessing</u>		
112-31	<u>0.145</u>	<u>0.635</u>
	Totals	28.0
	6.43	

ATTACHMENT B
CHANGE IN PM₁₀ EMISSIONS

<u>Emission Units¹</u>	<u>Hourly Limit</u> (Lb/Hr)	<u>Annual² Limit</u> (Tons/Yr)
<u>Elevator</u>		
West Headhouse Gallery Vacuum	0.009	0.038
Track six at Grade Vacuum	0.009	0.038
301-01	0.943	4.130
301-02	0.316	1.384
301-04	0.614	2.691
304-02	0.461	2.019
<u>Corn Mill House Vacuum</u>		
104-01	0.009	0.038
105-03	0.009	0.038
<u>Cleaning</u>		
110-08	0.016	0.071
110-09	0.351	1.539
115-02	0.492	2.154
<u>Corn Mill Preparation</u>		
101-01	0.207	0.906
101-02	0.172	0.755
103-04	0.057	0.252
103-05		(Discharge to 101-02)
105-04	0.399	1.748
105-06	0.172	0.755
115-03	0.282	1.234
115-04	1.24	5.4
115-05	0.005	0.021
115-06	Eliminated Pursuant to Construction Permit 02080017	
<u>Corn Milling</u>		
101-04	0.215	0.943
101-05	0.125	0.549
103-04		(See Corn Mil Preparation)
103-05		(See Corn Mil Preparation)
105-04		(See Corn Mil Preparation)
105-05	0.241	1.056
105-06		
109-01	0.076	0.334
109-02	0.075	0.327

<u>Emission Units</u> ¹	<u>Hourly Limit</u> (Lb/Hr)	<u>New Annual</u> ² <u>Limit</u> (Tons/Yr)
<u>Bran Milling</u>		
101-01		(See Corn Mill Preparation)
103-06	0.006	0.027
109-03	0.039	0.170
109-04	0.014	0.060
<u>Bins</u>		
104-02	0.207	0.906
105-06		(See Corn Mill Preparation)
<u>Packing and Loading</u>		
103-06		(See Bran Milling)
104-02		(See Bins)
105-10	0	0
110-04	0.010	0.042
110-05	0.020	0.086
110-07	0.025	0.111
111-34	0.007	0.031
115-01	0.258	1.132
<u>Reprocessing</u>		
112-31	<u>0.207</u>	<u>0.906</u>
	Totals	31.8
	7.3	

Notes: ¹ Emission units are grouped by their associated control system. The identity of the emission units controlled by each control system is provided in the cross referenced table included in the application.

² New Annual limits are based on maximum hours of operation and nominal exhaust grain loading.