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Facility Name: **Farmers Elevator Grain & Supply Assoc**

Application Number: **03-9973**

Date: **February 24, 1999**

GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. 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.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCES

The proposed source(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 Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(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 Ohio Administrative Code (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

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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 applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

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.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

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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.

PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

SOURCE OPERATION 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 and regulations.

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
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AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Farmers Elevator Grain & Supply Assoc** located in **Henry** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>	<u>F003</u>	<u>Source Identification Description</u>
F001 (Mod)		South grain elevator including truck dump pits #1 and #2 (11,500 bu/hr total capacity), #1
F001 (mod cont'd)		2000 bushel/hr column grain dryer
F002		7000 bu/hr transferring and conveying operations, and 5000 bu/hr screening and cleaning operations-Modification to allow for the installation of an additional dump pit and increased grain throughput

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
2000 bushel/hr column grain dryer #1	BAT <u>Determination</u>		Applicable Federal & <u>OAC Rules</u>	3745-31-05
	Use of 3-sided enclosure on grain dump pit #1 and total enclosures around material transferring, conveying, screening, and cleaning and compliance with the terms and conditions of this permit	Column plate perforations less than 0.094 inches and compliance with the terms and conditions of this permit	3745-31-05	
		Column plate perforations less than 0.094 inches and compliance with the terms and conditions of this permit		3745-31-05

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
Permit Allowable Emissions and/or Control/Usage Requirements	<u>Receiving-Dump Pit #2:</u> 2.67	Nitrogen Oxides (NO _x)/hr, 0.85 TPY NO _x (*)		
TPY fugitive PE	Transferring and Conveying:	Visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average		
0.027 TPY fugitive PE;	0.027 TPY fugitive PE;	0.078 lb PE/hr, 0.027 TPY PE (*)		
Visible emissions of fugitive dust shall not exceed 0% opacity	Visible emissions of fugitive dust shall not exceed 0% opacity	2.47 lbs NO _x /hr, 0.85 TPY NO _x (*)		
TPY fugitive PE	Screening and Cleaning:	Visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average		
0.012 TPY fugitive PE;	0.012 TPY fugitive PE;	0.078 lb PE/hr, 0.027 TPY PE (*)		
Visible emissions of fugitive dust shall not exceed 0% opacity	Visible emissions of fugitive dust shall not exceed 0% opacity	2.47 lbs		
3.17 TPY fugitive PE	3.17 TPY fugitive PE			
0.078 lb PE/hr, 0.027 TPY PE (*)	0.078 lb PE/hr, 0.027 TPY PE (*)			
Grain	2.47 lbs			

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- * These emissions are generated from the combustion of propane gas at a maximum heat input rate of 11.9 mm BTU/hr.

SUMMARY
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PE	11.41*
NO _x	1.7

- * The modification of P901 has resulted in an increase of 3.31 TPY in allowable emissions over what was previously permitted

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Ohio EPA Northwest District Office, 347 North Dunbridge Road, Bowling Green, Ohio 43402.**

WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

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MAINTENANCE OF EQUIPMENT

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Ohio EPA Northwest District Office, 347 North Dunbridge Road, Bowling Green, Ohio 43402.**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

INTRODUCTION

Farmers Elevator Grain & Supply Association has installed a 7000 bushel per hour grain dump pit and two 2000 bushel per hour column grain dryers, under PTI application number 03-9973. The installation of the grain dump pit constituted a modification to emissions unit F001.

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A. APPLICABLE EMISSION LIMITATIONS AND/OR CONTROL REQUIREMENTS

1. No additional emission limitations and/or control requirements other than those identified in the Air Emission Summary section of this permit.

B. OPERATIONAL RESTRICTIONS

1. The maximum annual throughput for emissions unit F001 shall not exceed 210,740 tons of grain.
2. The maximum annual throughput for emissions units F002 and F003 shall not exceed 28,823 tons of grain each.

C. MONITORING AND/OR RECORDKEEPING REQUIREMENTS

1. The permittee shall maintain monthly records of grain throughput for emissions units F001, F002 and F003.
2. 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, if a strip-chart recorder is employed, for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

D. REPORTING REQUIREMENTS

1. The permittee shall submit annual 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 Ohio EPA Northwest District Office. If no deviations occurred during a

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calendar year, the permittee shall submit an annual report, which states that no deviations occurred during that year. The reports shall be submitted yearly, i.e., by January 31 of each year and shall cover the previous calendar year.

E. TESTING REQUIREMENTS/COMPLIANCE METHODS REQUIREMENTS

1. Compliance with the emission limitations listed in the Air Emission Summary of this PTI for emission unit F001 shall be determined in accordance with the following methods:

- a. Emission Limitation-Grain Receiving-Dump Pit #1:

- i. 2.31 TPY fugitive PE
- ii. Visible emissions of fugitive dust shall not exceed 5% opacity

Applicable Compliance Method: Calculations, using AP-42, Section 9.9.1 emission factors (revised 5/98) and the actual annual throughput of the emission unit shall be performed to quantify fugitive PE. Compliance with the fugitive visible emission limitation shall be determined by visible emissions evaluations using the methods and procedures specified in USEPA Method 9 of 40 CFR Part 60, Appendix A.

- b. Emission Limitation-Grain Receiving-Dump Pit #2

- i. 2.67 TPY fugitive PE

Applicable Compliance Method: Calculations, using AP-42, Section 9.9.1 emission factors (revised 5/98) and the actual annual throughput of the emission unit shall be performed to quantify fugitive PE.

- c. Emission Limitation-Transferring and Conveying:

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- i. 0.027 TPY fugitive PE
- ii. Visible emissions of fugitive dust shall not exceed 0% opacity

Applicable Compliance Method: Calculations, using AP-42, Section 9.9.1 emission factors (revised 5/98) and the actual annual throughput of the emission unit shall be performed to quantify fugitive PE. Compliance with the fugitive visible emission limitation shall be determined by visible emissions evaluations using the methods and procedures specified in USEPA Method 9 of 40 CFR Part 60, Appendix A.

d. Emission Limitation-Screening and Cleaning:

- i. 0.012 TPY fugitive PE
- ii. Visible emissions of fugitive dust shall not exceed 0% opacity

Applicable Compliance Method: Calculations, using AP-42, Section 9.9.1 emission factors (revised 5/98) and the actual annual throughput of the emission unit shall be performed to quantify fugitive PE. Compliance with the fugitive visible emission limitation shall be determined by visible emissions evaluations using the methods and procedures specified in USEPA Method 9 of 40 CFR Part 60, Appendix A.

- 2. Compliance with the emission limitations listed in the Air Emission Summary of this PTI for emission unit F002 shall be determined in accordance with the following methods:

a. Emission Limitation: 3.17 TPY fugitive PE

Applicable Compliance Method: Calculations, using AP-42, Section 9.9.1 emission factors and the actual annual throughput of the emission unit shall be performed to quantify fugitive PE.

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- b. Emission Limitation: 0.078 lb PE/hr, 0.027 TPY PE

Applicable Compliance Method: Calculations, using AP-42, Section 1.5 emission factors and the maximum heat input of the emission unit (11.9 mmBTU/hr) shall be performed to quantify PE emissions.

- c. Emission Limitation: 2.47 lbs NOx/hr, 0.85 TPY NOx

Applicable Compliance Method: Calculations, using AP-42, Section 1.5 emission factors and the maximum heat input of the emission unit (11.9 mmBTU/hr) shall be performed to quantify NOx emissions.

- d. Emission Limitation: Visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average

Applicable Compliance Method: Compliance shall be determined by visible emissions evaluations using the methods and procedures specified in USEPA Method 22 of 40 CFR Part 60, Appendix A.

3. Compliance with the emission limitations listed in the Air Emission Summary of this PTI for emission unit F003 shall be determined in accordance with the following methods:

- a. Emission Limitation: 3.17 TPY fugitive PE

Applicable Compliance Method: Calculations, using AP-42, Section 9.9.1 emission factors and the actual annual throughput of the emission unit shall be performed to quantify fugitive PE.

- b. Emission Limitation: 0.078 lb PE/hr, 0.027 TPY PE

Applicable Compliance Method: Calculations, using AP-42, Section 1.5 emission factors and the

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maximum heat input of the emission unit (11.9 mmBTU/hr) shall be performed to quantify PE emissions.

- c. Emission Limitation: 2.47 lbs NOx/hr, 0.85 TPY NOx

Applicable Compliance Method: Calculations, using AP-42, Section 1.5 emission factors and the actual annual throughput of the emission unit shall be performed to quantify NOx emissions.

- d. Emission Limitation: Visible emissions of fugitive dust shall not exceed 20% opacity, as a 3-minute average

Applicable Compliance Method: Compliance shall be determined by visible emissions evaluations using the methods and procedures specified in USEPA Method 22 of 40 CFR Part 60, Appendix A.

F. MISCELLANEOUS REQUIREMENTS

1. None