



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
COLUMBIANA 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: 02-18742

DATE: 3/4/2004

SH Bell Company
John Bedeck
644 Alpha Drive
Pittsburgh, PA 15238

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

NEDO



**Permit To Install
Terms and Conditions**

**Issue Date: 3/4/2004
Effective Date: 3/4/2004**

FINAL PERMIT TO INSTALL 02-18742

Application Number: 02-18742
APS Premise Number: 0215020225
Permit Fee: **\$1250**
Name of Facility: SH Bell Company
Person to Contact: John Bedeck
Address: 644 Alpha Drive
Pittsburgh, PA 15238

Location of proposed air contaminant source(s) [emissions unit(s)]:
**2217 Michigan Ave
East Liverpool, Ohio**

Description of proposed emissions unit(s):
Fertilizer Conditioner/Conveyor System.

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

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

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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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>
PE	9.6
PM-10	4.5

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>	<u>Applicable Emissions Limitations/Control Measures</u>
F010 - Fertilizer conditioner and conveyor system	OAC rule 3745-31-05(A)(3)	Fugitive particulate emissions shall not exceed 2.2 lbs per hour, 9.6 tons per year.
		Fugitive PM-10 emissions shall not exceed 1.0 lb per hour, 4.5 tons per year.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(1) and OAC rule 3745-17-08.
	OAC rule 3745-17-07(B)(1)	Visible particulate emissions of any fugitive dust shall not exceed 20% opacity, as a three-minute average.
	OAC rule 3745-17-08(B)	Reasonably available control measures that are sufficient to minimize or eliminate emissions of fugitive dust. See Section A.2.a.

2. Additional Terms and Conditions

- 2.a The permittee shall employ one or more of the following reasonably available control measures to minimize or eliminate visible particulate emissions of fugitive dust.

1. The periodic application of asphalt, oil, water, or other suitable dust suppression chemicals on surfaces which can cause emissions of fugitive dust.
2. The installation and use of hoods, fans, and other equipment to adequately enclose, contain, capture, vent and control the fugitive dust. Such equipment shall meet the following requirements:
 - i. The collection efficiency is sufficient to minimize or eliminate visible particulate emissions of fugitive dust at the point(s) of capture to the extent possible with good engineering design.
3. The periodic application of water or other suitable dust suppression chemicals, the installation of enclosed structures, or the use of canvas or other suitable coverings for all material stockpiles and stockpiling operations.
4. The covering, at all times, of open bodied vehicles when transporting materials likely to become airborne.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

B. Operational Restrictions

1. The permittee shall minimize the drop height for transfer point from front end loader to hopper.
2. The fertilizer hopper/conditioner operations shall be contained within the building. The truck loading operation shall be contained within the load-out shed.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from this emissions unit. The presence or absence or any visible emissions of fugitive dust shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. The color of the emissions;
 - b. Whether the emissions are representative of normal operations;
 - c. If the emissions are not representative of normal operations, the cause of the abnormal

emissions;

- d. The total duration of any visible emission incident; and
 - e. Any corrective actions taken to eliminate the visible emissions.
2. The permittee shall maintain the following records on a monthly basis:
 - a. The type and amount of material processed at this emissions unit; and
 - b. The total hours of operation of this emissions unit.

D. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible emissions of fugitive dust were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible emissions of fugitive dust. These reports shall be submitted to Ohio EPA, Northeast District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

E. Testing Requirements

1. Emission Limitation:
Fugitive particulate emissions shall not exceed 2.2 lbs per hour

Applicable Compliance Method:

Compliance with the allowable hourly particulate emissions rate shall be determined by the summation of the emission rates from each segment of the fertilizer conditioner and conveyor system process. The segments are 1) front end loader to hopper/conditioner, 2) conditioning, 3) hopper/conditioner to conveyor and 4) conveyor belt to load out truck. The emissions rate from each segment is calculated by using the following equation:

$$E \text{ (lbs/hr)} = EF \times \text{Hourly production rate, tons/hr} \times (1 - CE)$$

where;

EF = Emission factor. EF for "front end loader to hopper/conditioner" and "conveyor belt to load out truck" taken from AP-42 (1/95), Section 13.2.4. EF for

Emissions Unit ID: **F010**

"conditioning" taken from AP-42, Table 19.2-1 (primary crushing). EF for "hopper conditioner to conveyor" taken from AP-42, Table 11.19.2-2 (conveyor transfer point).

CE = Control efficiency. "Front end loader to hopper/conditioner", "conditioning" and "hopper/conditioner to conveyor" reported to be contained within a building, providing an emissions control efficiency of 90%. The "conveyor belt to load out truck" activity is within the load out shed, reported to provide an emissions control efficiency of 50%.

2. Emission Limitation:
Fugitive particulate emissions shall not exceed 9.6 tons per year

Applicable Compliance Method:

Compliance with the allowable hourly particulate emissions rate shall be determined by the summation of the emission rates from each segment of the fertilizer conditioner and conveyor system process. The segments are 1) front end loader to hopper/conditioner, 2) conditioning, 3) hopper/conditioner to conveyor and 4) conveyor belt to load out truck. The emissions rate from each segment is calculated by using the following equation:

$$E \text{ (lbs/hr)} = EF \times \text{Annual production rate, tons/year} \times (1 - CE)$$

where;

EF = Emission factor. EF for "front end loader to hopper/conditioner" and "conveyor belt to load out truck" taken from AP-42 (1/95), Section 13.2.4. EF for "conditioning" taken from AP-42, Table 19.2-1 (primary crushing). EF for "hopper conditioner to conveyor" taken from AP-42, Table 11.19.2-2 (conveyor transfer point).

CE = Control efficiency. "Front end loader to hopper/conditioner", "conditioning" and "hopper/conditioner to conveyor" reported to be contained within a building, providing an emissions control efficiency of 90%. The "conveyor belt to load out truck" activity is within the load out shed, reported to provide an emissions control efficiency of 50%.

3. Emission Limitation:
Fugitive PM-10 emissions shall not exceed 1.0 lb per hour

Applicable Compliance Method:

Compliance with the allowable hourly particulate emissions rate shall be determined by the summation of the emission rates from each segment of the fertilizer conditioner and conveyor system process. The segments are 1) front end loader to hopper/conditioner, 2) conditioning, 3) hopper/conditioner to conveyor and 4) conveyor belt to load out truck. The emissions rate from each segment is calculated by using the following equation:

$$E \text{ (lbs/hr)} = EF \times \text{Hourly production rate, tons/hr} \times (1 - CE)$$

where;

EF = Emission factor. EF for "front end loader to hopper/conditioner" and "conveyor belt to load out truck" taken from AP-42 (1/95), Section 13.2.4. EF for

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"conditioning" taken from AP-42, Table 19.2-1 (primary crushing). EF for "hopper conditioner to conveyor" taken from AP-42, Table 11.19.2-2 (conveyor transfer point).

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CE = Control efficiency. "Front end loader to hopper/conditioner", "conditioning" and "hopper/conditioner to conveyor" reported to be contained within a building, providing an emissions control efficiency of 90%. The "conveyor belt to load out truck" activity is within the load out shed, reported to provide an emissions control efficiency of 50%.

4. Emission Limitation:
 Fugitive PM-10 emissions shall not exceed 4.5 tons per year

Applicable Compliance Method:

Compliance with the allowable hourly particulate emissions rate shall be determined by the summation of the emission rates from each segment of the fertilizer conditioner and conveyor system process. The segments are 1) front end loader to hopper/conditioner, 2) conditioning, 3) hopper/conditioner to conveyor and 4) conveyor belt to load out truck. The emissions rate from each segment is calculated by using the following equation:

$$E \text{ (lbs/hr)} = EF \times \text{Annual production rate, tons/year} \times (1 - CE)$$

where;

EF = Emission factor. EF for "front end loader to hopper/conditioner" and "conveyor belt to load out truck" taken from AP-42 (1/95), Section 13.2.4. EF for "conditioning" taken from AP-42, Table 19.2-1 (primary crushing). EF for "hopper conditioner to conveyor" taken from AP-42, Table 11.19.2-2 (conveyor transfer point).

CE = Control efficiency. "Front end loader to hopper/conditioner", "conditioning" and "hopper/conditioner to conveyor" reported to be contained within a building, providing an emissions control efficiency of 90%. The "conveyor belt to load out truck" activity is within the load out shed, reported to provide an emissions control efficiency of 50%.

5. Emission Limitation:
 20% opacity, as a three-minute average, for fugitive dust emissions

Applicable Compliance Method:

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA Reference Method 9.

F. Miscellaneous Requirements

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None