Burnham
F017

OhioEPA

State of Ohio Environmental Protection Agency

P.O. Box 1049, 1800 WaterMark Dr.
Columbus, Ohio 43266-0149

Re: Permit to Install
Muskingum County
Application No: 06-3004

CERTIFIED MAIL

January 30, 1991

BURNHAM CORPORATION
CRAIG SCHMEISSER
2345 LICKING RD
ZANESVILLE, OH 43701

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.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Board of Review 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 with the Environmental Board of Review within thirty (30) days after notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency and the Environmental Law Division of the Office of the Attorney General within three (3) days of filing with the Board. An appeal may be filed with the Environmental Board of Review at the following address:

Environmental Board of Review
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo

Thomas G. Rigo, Manager
Field Operations & Permit Section
Division of Air Pollution Control

cc: US EPA
SOUTHEAST DISTRICT OFFICE, DAPC

State of Ohio Environmental Protection Agency

Permit to Install
Terms and Conditions

Application No. 06-3004
APS Premise No. 0660010101
Permit Fee: $200.00

Name of Facility: BURNHAM CORPORATION

Person to Contact: CRAIG SCHMEISSER

Address: 2345 LICKING RD
ZANESVILLE, OH 43701

Location of proposed source(s): 2345 LICKING RD
ZANESVILLE, OHIO

Description of proposed source(s):
SHALCO 4-102 CORE MAKING MACHINE.

Date of Issuance: January 30, 1991

Effective Date: January 30, 1991

The above named entity is hereby granted a permit to install for the above described source(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 source(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 source(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

Gerry Loannil

Director

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 sources(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCE(S)

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 Ohio 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) 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 prove to be inadequate or cannot meet applicable standards.

PERMIT TO INSTALL FEE

In accordance with ORC Rule 3745.11, the specified Permit to Install fee must be remitted within 15 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.

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 and a $15 application fee 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 made at least 90 days prior to start-up of the source.

AIR EMISSION SUMMARY

The air contaminant sources listed below comprise the Permit to Install for Burnham Corporation located in Muskingum County. The sources 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.

Ohio EPA Source No.	Source Identification/ Description	BAT Determination	Applicable Federal and OAC Rules	Permit Allowable Mass Emissions and/or Control & Usage Requirements
F017	Shalco core machine	Fume scrubber preceded by sand trap	3745-31-05	0.05 lb/hr triethylamine from sources F016 and F017 combined

SUMMARY
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Pollutant	Tons/Year
Triethylamine	0.20 from sources F016 and F017 combined

CONSTRUCTION STATUS

The Southeast District Office shall be notified in writing as to (a) the construction starting date, (b) the construction completion date, and (c) the date the facilities were placed into operation for the following source: Shalco core machine.

PERFORMANCE TEST REQUIREMENTS

Within 90 days from startup, the permittee shall conduct, or have conducted, performance testing on the air contaminant source(s) in accordance with procedures approved by the Agency. Two copies of the written report shall be submitted and signed by the person responsible for the test, describing the test procedures followed and the results of such tests. The Director, or an Ohio EPA representative, shall be allowed to witness the tests, examine testing equipment, and require the acquisition or submission of data and information necessary to assure that the source operation and testing procedures provide a valid characterization of the emissions from the source and/or the performance of the control equipment.

a. A completed Intent to Test form shall be submitted to the appropriate Ohio EPA District Office or Local Air Pollution Control Agency where the original permit application was filed. This notice shall be made 30 days in advance and shall specify the source operating parameters, the proposed test procedures, and the time, date, place and person(s) conducting such tests.

b. Two copies of the test results shall be submitted within 30 days after the completion of the performance test.

c. Test shall be performed for the following sources and pollutants:

Source	Pollutants
Shalco core machine	Triethylamine

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to the Southeast District Office.

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 source.

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 Southeast District Office.

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

NINETY DAY OPERATING PERIOD

The facility will be permitted to operate during a 90-day period in accordance with OAC Rule 3745-35-02 (C)(4)(b). The purpose of this period of operation is to fulfill the performance tests conditions used in the determination of compliance with the provisions of this Permit to Install or other applicable Ohio EPA rules.

ADDITIONAL SOLID AND HAZARDOUS WASTE SPECIAL TERMS AND CONDITIONS

(1) Solid, semi-solid or hazardous materials generated by the unit operations are to be reused, recycled or sold for recovery when feasible. Solid, semi-solid and hazardous waste must be stored, treated, or disposed of in facilities installed and operated in accordance with Ohio Revised Code Section 3734.

(2) The Southeast District Office of the Ohio Environmental Protection Agency shall be notified, in writing prior to start-up of operations, as to the proposed disposition of all solid, semi-solid and hazardous waste materials. Notification shall include the following information:

a. Name, location, and address of disposal facility.

b. Method of disposal (incineration, secure landfill, etc.).

c. Description of waste material to be disposed of.

d. Quantities of waste material to be disposed of and frequency of disposal.

e. Name and address of contract haulers.

Any change in the disposition of waste materials shall be reported to the District Office prior to such a change.

ADDITIONAL AIR SPECIAL TERMS AND CONDITIONS

1. Monitoring Requirements

Equipment shall be provided on the isocure core line scrubbing system that monitors the pH of the scrubbing liquor and the level of the liquor in the sump. Visual and audio alarms shall be provided such that excursions above normal pH levels or liquid levels below normal levels can be detected and corrected by immediate adjustment of the control system or shutdown of the source.

ADDITIONAL WATER POLLUTION CONTROL SPECIAL TERMS AND CONDITIONS

1) The wastewater discharge from the existing packed tower amine gas scrubber which will serve the proposed Shalco 4-102 core making machine must be discharged to and treated by the existing wastewater treatment facilities and discharged through outfall 0IS00000005 contained in NPDES Permit #0IS00000*DD.

   Based on the projected, maximum production rate, 440 gallons of water and amine salt solution will be discharged every ten (10) production days.

2) No liquids, sludges, or toxic or hazardous substances other than those set forth in the approved permit shall be accepted for disposal without prior written approval of the Ohio Environmental Protection Agency.