



State of Ohio Environmental Protection Agency

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

CERTIFIED MAIL

Street Address:

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

Mailing Address:

Lazarus Gov.
Center

Application No: 14-05431

DATE: 5/27/2003

ZF Batavia, L.L.C.
Philip Utrecht
1981 Front Wheel Drive
Batavia, OH 45103

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
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Michael W. Ahern

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

CC: USEPA

HCDES

Dr. Janet Rickabaugh Clermont County Health District



**Permit To Install
Terms and Conditions**

**Issue Date: 5/27/2003
Effective Date: 5/27/2003**

FINAL PERMIT TO INSTALL 14-05431

Application Number: 14-05431
APS Premise Number: 1413000187
Permit Fee: **\$1800**
Name of Facility: ZF Batavia, L.L.C.
Person to Contact: Philip Utrecht
Address: 1981 Front Wheel Drive
Batavia, OH 45103

Location of proposed air contaminant source(s) [emissions unit(s)]:
**1981 Front Wheel Drive
Batavia Ohio, Ohio**

Description of proposed emissions unit(s):
Modification to Batavia Plant Case Hardening Process to add backup propane.

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. State and Federally Enforceable Permit To Install General Terms and Conditions

1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- b. 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.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written 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. See B.9 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
- iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

2. 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, i.e., upset, 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. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. 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 request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

7. 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.

8. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are

required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

9. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

10. Permit To Operate Application

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. 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 source(s) covered by this permit.

11. 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.

12. 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.

B. State Only Enforceable 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 of state-only enforceable 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 state-only required 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. Permit Transfers

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.

4. 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.

5. 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.

6. 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.

7. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

8. 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.

9. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

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.

C. 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>
SO2	0.15
PM	0.29
PM10	0.29
NOx	18.49
CO	10.91
OC	1.43
Ammonia	2.03

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ZF Batavia, L.L.C.

PTI Application: **14-05431**

Issued: 5/27/2003

Facility ID: **1413000187**

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ZF Ba1

PTI A1

Issued: 5/27/2003

Emissions Unit ID: P179

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions

None

B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions

None

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P179 - 21 Tray Pusher Furnace Case Hardening System	OAC rule 3745-31-05(A)(3)	0.062 lb/hr SO ₂ , 0.04 TPY SO ₂ 0.041 lb/hr PM/PM ₁₀ , 0.08 TPY PM/PM ₁₀ 1.49 lbs/hr NO _x , 4.33 TPY NO _x 0.65 lb/hr CO, 2.92 TPY CO 0.085 lb/hr OC, 0.38 TPY OC
		0.13 lb/hr ammonia, 0.58 TPY ammonia
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(E)(2)	The emission limitation specified by this rule is less stringent than the emission

limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a** The hourly emission limitations outlined are based on the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.b** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the hourly and annual emissions limitations, through the operation of secondary pilot burners at the entrance and exit of the furnace and the propane usage limitations.

II. Operational Restrictions

- 1. The permittee shall burn only natural gas, endothermic gas and propane, as fuels, in this emissions unit.
- 2. The maximum annual propane usage for this emissions unit shall not exceed 43,632 gallons.

III. Monitoring and/or Recordkeeping Requirements

- 1. For each day during which the permittee burns a fuel other than natural gas, endothermic gas and/or propane the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall maintain monthly records of the amount of propane used in this emissions unit.

IV. Reporting Requirements

- 1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas, endothermic gas and/or propane was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
- 2. The permittee shall submit annual reports which identify the amount of propane used in this emissions unit. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

Emissions Unit ID: P179

1. Compliance with the emissions limitations outlined above shall be demonstrated by the fuel burning emission factors from AP-42 Fifth Edition, External Combustion Sources, Tables 1.4-1, 1.4-2 and 1.5-1, 7/98, and by the operational parameters of the Batch furnace system as submitted in the PTI application 14-05431, April 8, 2003. For calculations, the emission factors from Tables 1.4-1 and 1.4-2 shall be applied to both the natural gas combustion and the endothermic gas combustion. The emission factors from Table 1.5-1 shall be applied to propane gas combustion.

Compliance Calculations:

1. The hourly emissions from endo-gas are determined by multiplying the AP-42 emission factor by the maximum fuel usage rate of 0.0022 mmcf/hr.
2. The hourly emissions from natural gas combustion are determined by multiplying the AP-42 emission factor by the maximum fuel usage rate 0.005545 mmcf/hr.
3. The hourly emissions from propane usage are determined by multiplying the AP-42 emission factor by the maximum fuel usage rate, 60.6 gal/hr, and dividing by 1000.
4. The annual emissions from propane are determined by multiplying the AP-42 emission factor by the total allowable usage, 43.632 10^3 gal, and dividing by 2000 lb/ton.
5. The hourly emissions NO_x from ammonia conversion are determined by multiplying the ammonia emission factor 23.81 lb/hr (based on usage rate of 200 cu ft/hr, the density of ammonia, and the molecular weight ratio of NO₂ to ammonia) by the residual percent not consumed in the process, 2 % (0.02), by the percent combusted, 25 % (0.25).

- a. Emissions Limitation:
0.062 lb/hr SO₂, 0.04 TPY SO₂

Applicable Compliance Method:

The hourly emissions are determined by (1 + 3). The total annual emissions are determined by $[(1 + 2) \times (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})] + 4$.

- b. Emissions Limitation:
0.041 lb/hr PM/PM₁₀, 0.08 TPY PM/PM₁₀

Applicable Compliance Method:

The hourly emissions are determined by (1 + 3). The total annual emissions are determined by $[(1 + 2) \times (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})] + 4$.

- c. Emissions Limitation:
1.49 lb/hr NO_x, 4.33 TPY NO_x

Applicable Compliance Method:

The hourly emissions are determined by (1 + 3 + 5). The total annual emissions are determined by $[(1 + 2 + 5) \times (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})] + 4$.

- d. Emissions Limitation:
0.65 lb/hr CO, 2.92 TPY CO

Applicable Compliance Method:

The hourly emissions are determined by (1 + 2). The total annual emissions are determined by $[(1 + 2) \times (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})] + 4$.

- e. Emissions Limitation:
0.085 lb/hr OC, 0.38 TPY OC

Applicable Compliance Method:

The hourly emissions are determined by (1 + 2). The total annual emissions are determined by $[(1 + 2) \times (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})] + 4$.

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2. Emissions Limitation:
0.13 lb/hr ammonia, 0.58 TPY ammonia

Applicable Compliance Method:

Compliance with the emissions limitations outlined above shall be demonstrated by using the formula for the ammonia emissions which are not combusted in the secondary pilot burners, submitted in the PTI application 14-05431, April 8, 2003. The hourly emission limit is determined by multiplying the ammonia emission factor 8.8 lb/hr (based on usage rate of 200 cu ft/hr and the density of ammonia) by the residual percent not consumed in the process, 2 % (0.02), by the percent not combusted, 75 % (0.75). The annual emission limit is determined by multiplying the hourly emissions by 8760 hr/yr and dividing by 2000 lb/ton.

3. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
4. Compliance with the fuel usage limitation in term A.II.2 shall be demonstrated by the record keeping in term A.III.2.

VI. Miscellaneous Requirements

1. The following terms and conditions shall supercede all the air pollution control requirements for this emissions unit contained in permit to install 14-05161 as issued on July 12, 2001: A-F.

B. State Only Enforceable Section

I. 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>
P179 - 21 Tray Pusher Furnace Case Hardening System	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

- 1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

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Emissions Unit ID: P179

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P180 - Batch Furnace Case Hardening System	OAC rule 3745-31-05(A)(3)	0.029 lb/hr SO ₂ , 0.03 TPY SO ₂ 0.024 lb/hr PM/PM ₁₀ , 0.06 TPY PM/PM ₁₀ 1.59 lbs/hr NO _x , 6.05 TPY NO _x 0.58 lb/hr CO, 2.56 TPY CO 0.076 lb/hr OC, 0.34 TPY OC
	OAC rule 3745-17-07(A)(1)	0.067 lb/hr ammonia, 0.29 TPY ammonia The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-11(B)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-18-06(E)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
		The emission limitation specified by this rule is less stringent than the emission

Issued: 5/27/2003

limitation established
pursuant to OAC rule
3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a** The hourly emission limitations outlined are based upon the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.b** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the hourly and annual emissions limitations, through the operation of ring burners at the entrance and exit of the furnace and the propane usage limitation.

II. Operational Restrictions

- 1. The permittee shall burn only natural gas, propane gas and endothermic gas, as fuels, in this emissions unit.
- 2. The maximum annual propane usage for this emissions unit shall not exceed 18,576 gallons.

III. Monitoring and/or Recordkeeping Requirements

- 1. For each day during which the permittee burns a fuel other than natural gas, propane gas and/or endothermic gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall maintain monthly records of the amount of propane used in this emissions unit.

IV. Reporting Requirements

- 1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas, propane gas and/or endothermic gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
- 2. The permittee shall submit annual reports which identify the amount of propane used in this emissions unit. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emissions limitations outlined above shall be demonstrated by the fuel burning emission factors from AP-42 Fifth Edition, External Combustion Sources, Tables 1.4-1, 1.4-2 and 1.5-1, 7/98, and by the operational parameters of the Batch furnace system as submitted in the PTI application 14-05431, April 8, 2003. For calculations, the emission factors from Tables 1.4-1 and 1.4-2 shall be applied to both the natural gas combustion and the endothermic gas combustion. The emission factors from Table 1.5-1 shall be applied to propane gas combustion.

Compliance Calculations:

1. The hourly emissions from endo-gas are determined by multiplying the AP-42 emission factor by the maximum fuel usage rate of 0.0022 mmcf/hr.
2. The hourly emissions from natural gas combustion are determined by multiplying the AP-42 emission factor by the maximum fuel usage rate 0.005545 mmcf/hr.
3. The hourly emissions from propane usage are determined by multiplying the AP-42 emission factor by the maximum fuel usage rate, 60.6 gal/hr, and dividing by 1000.
4. The annual emissions from propane are determined by multiplying the AP-42 emission factor by the total allowable usage, 18.576 10³ gal, and dividing by 2000 lb/ton.
5. The hourly emissions NO_x from ammonia conversion are determined by multiplying the ammonia emission factor 23.81 lb/hr (based on usage rate of 200 cu ft/hr, the density of ammonia, and the molecular weight ratio of NO₂ to ammonia) by the residual percent not consumed in the process, 2 % (0.02), by the percent combusted, 25 % (0.25).

- a. Emissions Limitation:
0.029 lb/hr SO₂, 0.03 TPY SO₂

Applicable Compliance Method:

The hourly emissions are determined by (1 + 3). The total annual emissions are determined by $[(1 + 2) \times (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})] + 4$.

- b. Emissions Limitation:
0.024 lb/hr PM/PM₁₀, 0.06 TPY PM/PM₁₀

Applicable Compliance Method:

The hourly emissions are determined by (1 + 3). The total annual emissions are determined by $[(1 + 2) \times (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})] + 4$.

- c. Emissions Limitation:
1.59 lbs/hr NO_x, 6.05 TPY NO_x

Applicable Compliance Method:

The hourly emissions are determined by $(1 + 3 + 5)$. The total annual emissions are determined by $[(1 + 2 + 5) \times (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})] + 4$.

- d. Emissions Limitation:
0.58 lb/hr CO, 2.56 TPY CO

Applicable Compliance Method:

The hourly emissions are determined by $(1 + 2)$. The total annual emissions are determined by $[(1 + 2) \times (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})] + 4$.

- e. Emissions Limitation:
0.076 lb/hr OC, 0.34 TPY OC

Applicable Compliance Method:

The hourly emissions are determined by $(1 + 2)$. The total annual emissions are determined by $[(1 + 2) \times (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})] + 4$.

Issued: 5/27/2003

2. Emissions Limitation:
0.067 lb/hr ammonia, 0.29 TPY ammonia

Applicable Compliance Method:

Compliance with the emissions limitations outlined above shall be demonstrated by using the formula for the ammonia emissions which are not combusted in the secondary pilot burners, submitted in the PTI application 14-05431, April 8, 2003. The hourly emission limit is determined by multiplying the ammonia emission factor 8.8 lb/hr (based on usage rate of 200 cu ft/hr and the density of ammonia) by the residual percent not consumed in the process, 2 % (0.02), by the percent not combusted, 75 % (0.75). The annual emission limit is determined by the multiplying the hourly emissions by 8760 hr/yr and dividing by 2000 lb/ton.

3. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
4. Compliance with the fuel usage limitation in term A.II.2 shall be demonstrated by the record keeping in term A.III.2.

VI. Miscellaneous Requirements

1. The terms and conditions listed in this permit to install shall supercede all the air pollution control requirements for this emissions unit contained in permit to install 14-05354, as issued on October 22, 2002.

B. State Only Enforceable Section

I. 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>
P180 - Batch Furnace Case Hardening System	None	None

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

- 1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. State and Federally Enforceable Section

I. 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>
P181 - 21 Tray Pusher Furnace Case Hardening System Number 2	OAC rule 3745-31-05(A)(3)	0.062 lb/hr SO ₂ , 0.04 TPY SO ₂ 0.041 lb/hr PM/PM ₁₀ , 0.08 TPY PM/PM ₁₀ 1.49 lb/hr NO _x , 4.33 TPY NO _x 0.65 lb/hr CO, 2.92 TPY CO 0.085 lb/hr OC, 0.38 TPY OC 0.13 lb/hr ammonia, 0.58 TPY ammonia The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(E)(2)	The emission limitation specified by this rule is less stringent than the emission

limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a** The hourly emission limitations outlined are based on the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.b** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the hourly and annual emissions limitations, through the operation of secondary pilot burners at the entrance and exit of the furnace and the propane usage limitations.

II. Operational Restrictions

- 1. The permittee shall burn only natural gas, propane gas and endothermic gas, as fuels, in this emissions unit.
- 2. The maximum annual propane usage for this emissions unit shall not exceed 43,632 gallons.

III. Monitoring and/or Recordkeeping Requirements

- 1. For each day during which the permittee burns a fuel other than natural gas, propane gas and/or endothermic gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall maintain monthly records of the amount of propane used in this emissions unit.

IV. Reporting Requirements

- 1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas, propane gas and/or endothermic gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
- 2. The permittee shall submit annual reports which identify the amount of propane used in this emissions unit. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

Emissions Unit ID: P181

1. Compliance with the emissions limitations outlined above shall be demonstrated by the fuel burning emission factors from AP-42 Fifth Edition, External Combustion Sources, Tables 1.4-1, 1.4-2 and 1.5-1, 7/98, and by the operational parameters of the Batch furnace system as submitted in the PTI application 14-05431, April 8, 2003. For calculations, the emission factors from Tables 1.4-1 and 1.4-2 shall be applied to both the natural gas combustion and the endothermic gas combustion. The emission factors from Table 1.5-1 shall be applied to propane gas combustion.

Compliance Calculations:

1. The hourly emissions from endo-gas are determined by multiplying the AP-42 emission factor by the maximum fuel usage rate of 0.0022 mmcf/hr.
2. The hourly emissions from natural gas combustion are determined by multiplying the AP-42 emission factor by the maximum fuel usage rate 0.005545 mmcf/hr.
3. The hourly emissions from propane usage are determined by multiplying the AP-42 emission factor by the maximum fuel usage rate, 60.6 gal/hr, and dividing by 1000.
4. The annual emissions from propane are determined by multiplying the AP-42 emission factor by the total allowable usage, 43.632 10³ gal, and dividing by 2000 lb/ton.
5. The hourly emissions NO_x from ammonia conversion are determined by multiplying the ammonia emission factor 23.81 lb/hr (based on usage rate of 200 cu ft/hr, the density of ammonia, and the molecular weight ratio of NO₂ to ammonia) by the residual percent not consumed in the process, 2 % (0.02), by the percent combusted, 25 % (0.25).

- a. Emissions Limitation:
0.062 lb/hr SO₂, 0.04 TPY SO₂

Applicable Compliance Method:

The hourly emissions are determined by (1 + 3). The total annual emissions are determined by $[(1 + 2) \times (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})] + 4$.

- b. Emissions Limitation:
0.041 lb/hr PM/PM₁₀, 0.08 TPY PM/PM₁₀

Applicable Compliance Method:

The hourly emissions are determined by (1 + 3). The total annual emissions are determined by $[(1 + 2) \times (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})] + 4$.

- c. Emissions Limitation:
1.49 lb/hr NO_x, 4.33 TPY NO_x

Applicable Compliance Method:

The hourly emissions are determined by (1 + 3 + 5). The total annual emissions

are determined by $[(1 + 2 + 5) \times (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})] + 4$.

- d. Emissions Limitation:
0.65 lb/hr CO, 2.92 TPY CO

Applicable Compliance Method:

The hourly emissions are determined by (1 + 2). The total annual emissions are determined by $[(1 + 2) \times (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})] + 4$.

- e. Emissions Limitation:
0.085 lb/hr OC, 0.38 TPY OC

Applicable Compliance Method:

The hourly emissions are determined by (1 + 2). The total annual emissions are determined by $[(1 + 2) \times (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})] + 4$.

Issued: 5/27/2003

2. Emissions Limitation:
0.13 lb/hr ammonia, 0.58 TPY ammonia

Applicable Compliance Method:

Compliance with the emissions limitations outlined above shall be demonstrated by using the formula for the ammonia emissions which are not combusted in the secondary pilot burners, submitted in the PTI application 14-05431, April 8, 2003. The hourly emission limit is determined by multiplying the ammonia emission factor 8.8 lb/hr (based on usage rate of 200 cu ft/hr and the density of ammonia) by the residual percent not consumed in the process, 2 % (0.02), by the percent not combusted, 75 % (0.75). The annual emission limit is determined by the multiplying the hourly emissions by 8760 hr/yr and dividing by 2000 lb/ton.

3. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
4. Compliance with the fuel usage limitation in term A.II.2 shall be demonstrated by the record keeping in term A.III.2.

VI. Miscellaneous Requirements

1. The terms and conditions listed in this permit to install shall supercede all the air pollution control requirements for this emissions unit contained in permit to install 14-05354, as issued on October 22, 2002.

B. State Only Enforceable Section

I. 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>
P181 - 21 Tray Pusher Furnace Case Hardening System Number 2	None	None

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

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Issued: 5/27/2003

Emissions Unit ID: P181

Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**A. State and Federally Enforceable Section****I. 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>
P182 - 10 Tray Pusher Furnace Case Hardening System	OAC rule 3745-31-05(A)(3)	0.050 lb/hr SO ₂ , 0.04 TPY SO ₂ 0.031 lb/hr PM/PM ₁₀ , 0.07 TPY PM/PM ₁₀ 1.27 lb/hr NO _x , 3.78 TPY NO _x 0.56 lb/hr CO, 2.51 TPY CO 0.073 lb/hr OC, 0.33 TPY OC
	OAC rule 3745-17-07(A)(1)	0.13 lb/hr ammonia, 0.58 TPY ammonia The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A)(1).
	OAC rule 3745-17-11(B)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-18-06(E)(2)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
		The emission limitation specified by this rule is less stringent than the emission

limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- 2.a** The hourly emission limitations outlined are based on the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with these limits.
- 2.b** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the hourly and annual emissions limitations and through the operation of secondary pilot burners at the entrance and exit of the furnace.

II. Operational Restrictions

- 1. The permittee shall burn only natural gas, propane gas and endothermic gas, as fuels, in this emissions unit.
- 2. The maximum annual propane usage for this emissions unit shall not exceed 35,208 gallons.

III. Monitoring and/or Recordkeeping Requirements

- 1. For each day during which the permittee burns a fuel other than natural gas, propane gas and/or endothermic gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- 2. The permittee shall maintain monthly records of the amount of propane used in this emissions unit.

IV. Reporting Requirements

- 1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas, propane gas and/or endothermic gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
- 2. The permittee shall submit annual reports which identify the amount of propane used in this emissions unit. These reports shall be submitted by January 31 of each year.

V. Testing Requirements

Issued

Emissions Unit ID: P182

1. Compliance with the emissions limitations outlined above shall be demonstrated by the fuel burning emission factors from AP-42 Fifth Edition, External Combustion Sources, Tables 1.4-1, 1.4-2 and 1.5-1, 7/98, and by the operational parameters of the Batch furnace system as submitted in the PTI application 14-05431, April 8, 2003. For calculations, the emission factors from Tables 1.4-1 and 1.4-2 shall be applied to both the natural gas combustion and the endothermic gas combustion. The emission factors from Table 1.5-1 shall be applied to propane gas combustion.

Compliance Calculations:

1. The hourly emissions from endo-gas are determined by multiplying the AP-42 emission factor by the maximum fuel usage rate of 0.0022 mmcf/hr.
2. The hourly emissions from natural gas combustion are determined by multiplying the AP-42 emission factor by the maximum fuel usage rate 0.005545 mmcf/hr.
3. The hourly emissions from propane usage are determined by multiplying the AP-42 emission factor by the maximum fuel usage rate, 60.6 gal/hr, and dividing by 1000.
4. The annual emissions from propane are determined by multiplying the AP-42 emission factor by the total allowable usage, 35.208 10³ gal, and dividing by 2000 lb/ton.
5. The hourly emissions NO_x from ammonia conversion are determined by multiplying the ammonia emission factor 23.81 lb/hr (based on usage rate of 200 cu ft/hr, the density of ammonia, and the molecular weight ratio of NO₂ to ammonia) by the residual percent not consumed in the process, 2 % (0.02), by the percent combusted, 25 % (0.25).

- a. Emissions Limitation:
0.050 lb/hr SO₂, 0.04 TPY SO₂

Applicable Compliance Method:

The hourly emissions are determined by (1 + 3). The total annual emissions are determined by $[(1 + 2) \times (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})] + 4$.

- b. Emissions Limitation:
0.031 lb/hr PM/PM₁₀, 0.07 TPY PM/PM₁₀

Applicable Compliance Method:

The hourly emissions are determined by (1 + 3). The total annual emissions are determined by $[(1 + 2) \times (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})] + 4$.

- c. Emissions Limitation:
1.27 lb/hr NO_x, 3.78 TPY NO_x

Applicable Compliance Method:

The hourly emissions are determined by (1 + 3 + 5). The total annual emissions

are determined by $[(1 + 2 + 5) \times (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})] + 4$.

- d. Emissions Limitation:
0.56 lb/hr CO, 2.51 TPY CO

Applicable Compliance Method:

The hourly emissions are determined by (1 + 2). The total annual emissions are determined by $[(1 + 2) \times (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})] + 4$.

- e. Emissions Limitation:
0.073 lb/hr OC, 0.33 TPY OC

Applicable Compliance Method:

The hourly emissions are determined by (1 + 2). The total annual emissions are determined by $[(1 + 2) \times (8760 \text{ hr/yr}) / (2000 \text{ lb/ton})] + 4$.

Issued: 5/27/2003

2. Emissions Limitation:
0.13 lb/hr ammonia, 0.58 TPY ammonia

Applicable Compliance Method:

Compliance with the emissions limitations outlined above shall be demonstrated by using the formula for the ammonia emissions which are not combusted in the secondary pilot burners, submitted in the PTI application 14-05431, April 8, 2003. The hourly emission limit is determined by multiplying the ammonia emission factor 8.8 lb/hr (based on usage rate of 200 cu ft/hr and the density of ammonia) by the residual percent not consumed in the process, 2 % (0.02), by the percent not combusted, 75 % (0.75). The annual emission limit is determined by the multiplying the hourly emissions by 8760 hr/yr and dividing by 2000 lb/ton.

3. Compliance with the visible particulate limitation shall be demonstrated by the methods outlined in 40 CFR Part 60, Appendix A, Method 9.
4. Compliance with the fuel usage limitation in term A.II.2 shall be demonstrated by the record keeping in term A.III.2.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. 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>
P182 - 10 Tray Pusher Furnace Case Hardening System	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

- 1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.