State of Ohio Environmental Protection Agency

RE: FINAL PERMIT TO INSTALL **CERTIFIED MAIL**
LORAIN COUNTY

Street Address:
50 West Town Street, Suite 700
Lazarus Gov. Center **TELE:** (614) 644-3020 **FAX:** (614) 644-2329
Mailing Address:
Lazarus Gov. Center
P.O. Box 1049

Application No: 02-22924
Fac ID: 0247040928
DATE: 2/5/2008

Castek Aluminum, Inc.
Gary Schroeder
527 Ternes Ave.
Elyria, OH 44035

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 of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 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. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of $70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. 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, OH 43215

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

CC: **USEPA** **NEDO**

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install	**Issue Date: 2/5/2008**
Terms and Conditions	**Effective Date: 2/5/2008**

FINAL PERMIT TO INSTALL 02-22924

Application Number:	02-22924
Facility ID:	0247040928
Permit Fee:	**$400**
Name of Facility:	Castek Aluminum, Inc.
Person to Contact:	Gary Schroeder
Address:	527 Ternes Ave. Elyria, OH 44035

Location of proposed air contaminant source(s) [emissions unit(s)]:
527 Ternes Ave.
Elyria, **Ohio**

Description of proposed emissions unit(s):
Modification to P001 (Palmer Mixer) from PTI 02-22554.

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

Chris Korleski
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 (i.e., postmarked) quarterly 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.

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

Pollutant	Tons Per Year
Particulate Emissions	0.34
Organic Compounds	1.84

Emissions Unit ID: **P001**

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.

Operations, Property, and/or Equipment - (P001) - Modification to P001 (Palmer Mixer) from PTI 02-22554.

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
OAC rule 3745-31-05(A)(3)	Organic compound emissions shall not exceed 10.08 pounds per day, 1.84 tons per year. Visible emissions from building openings shall not exceed fivepercent (5 %) opacity as a six-minute average. The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G)(2). Particulate emissions shall not exceed 1.83 pounds per day, 0.34 ton per year.
OAC rule 3745-17-08(B)	Exempt, because the facility is not located within an Appendix A area.
OAC rule 3745-17-07(B)	Exempt, per OAC rule 3745-17-07(B)(11)

2. Additional Terms and Conditions

2.a None

B. Operational Restrictions

None

C. Monitoring and/or Record keeping Requirements

1. The permittee shall collect and record the following information each day:

a. the name and identification number of each liquid organic employed;

b. the weight, in pounds or tons, of sand and liquid organic material mixed;
c. the daily organic compound emission rate (pounds) using an emission factor of 0.033 pound per ton of sand mixed
d. the number of hours of operation
e. the average hourly organic compound emission rate (c)/(d)

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the building that houses this emissions unit. The presence or absence of any visible emissions 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. the total duration of any visible emission incident; and,
c. any corrective actions taken to minimize or eliminate the visible emissions.

Not withstanding the frequency of reporting requirements specified above, the permittee may reduce the frequency of visual observations from daily to weekly for this emissions unit if the following conditions are met:

a. for one full quarter the facility's visual observations indicate no visible emissions; and
b. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings if any visible emissions are observed.

D. Reporting Requirements

1 The permittee shall submit deviation (excursion) reports which include the following information:

a. an identification of each day during which the average hourly organic compound emissions exceeded

2. The permittee shall submit an annual written report which (a) identify all days during which any visible emissions were observed from the building which houses this emissions unit and (b) describes any corrective actions taken to eliminate the visible particulate emissions. This report shall be submitted to the Northeast District Office of the Ohio EPA by January 31 of each year and shall cover the previous calendar year.

Emissions Unit ID: **P001**

E. Testing Requirements

1. Emission Limitation:
Organic compound emissions shall not exceed 10.08 pounds per day.

Applicable Compliance Method:
Compliance shall be based on the following equation:

Ed = (Omd x 0.033) where

Ed = emission rate of organic compounds, pounds per day.
Omd = pounds of organic material used per day, record keeping requirement in section C.
0.033 = emission factor, from American Foundrymen's Society, Inc. and Casting Industry Supplier's Association document labeled "Form R Reporting of Binder Chemicals Used in Foundries, second edition" also based on information provided in Ohio Cast Metals Association study.

2. Emission Limitation:
Organic compound emissions shall not exceed 1.84 tons per year.

Applicable Compliance Method:
Compliance shall be based on the following equation:

Ey = (Omy x 0.033)/2000 where:

Ey = emission rate of organic compounds, tons per year.
Omy = pounds of organic material used per year, record keeping requirements in Section C.
0.033 = emission factor, from American Foundrymen's Society, Inc. and Casting Industry Supplier's Association document labeled "Form R Reporting of Binder Chemicals Used in Foundries, second edition" also based on information provided in Ohio Cast Metals Association study.
2,000 = conversion factor, pounds per ton.

3. Emission Limitation:
Visible emissions from building openings shall not exceed five percent (5 %) opacity as a six-minute average.

Applicable Compliance Method:
Compliance shall be demonstrated by using Method 9 of 40 CFR, Part 60, Appendix A.

4. Emission Limitation:
Particulate emissions shall not exceed 1.83 pounds per day.

Applicable Compliance Method:
Compliance shall be based on the following equation:

Ed = Tsd x 0.3 where:

Ed = emission rate, pounds per day
Tsd = tons of sand used per day
0.3 = emission factor (pound of particulate per ton of sand) based on RACM document, Table 2-7.1

5. Emission Limitation:
Particulate emissions shall not exceed 0.34 ton per year.

Applicable Compliance Method:
Compliance shall be based on the following equation:

Ey = (Tsy x 0.3)/2000 where:

Ey = ton of particulate emissions per year
Tsy = tons of sand used per year, based on record keeping required in C.1.
0.3 = emission factor (pound of particulate per ton of sand) based on RACM document, Table 2-7.1
2,000 = conversion factor, pounds per ton.

F. Miscellaneous Requirements

None