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Facility Name: **Admiral Heintz, Inc.**

Application Number: **16-1809**

Date: **August 19, 1998**

GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

NOTICE OF INSPECTION

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

CONSTRUCTION OF NEW SOURCES

The proposed source(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of Ohio Administrative Code (OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as

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an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet applicable standards.

PERMIT TO INSTALL FEE

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

PUBLIC DISCLOSURE

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC Rule 3745-49-03.

APPLICABILITY

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

BEST AVAILABLE TECHNOLOGY

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule

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3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

This facility is permitted to operate each source described by this permit to install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws and regulations.

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AIR EMISSION SUMMARY

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

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
F009	Electrically-heated crucible aluminum melt furnace.t	Electricity as heat source.	3745-31-05	11.4 lbs/day particulate.
		Employment of only clean aluminum materials.	3745-17-07	20% opacity as a three-minute average.
		No demagging of aluminum melt.	3745-17-08	See Additional Special Terms and Conditions.
		Compliance with the terms and conditions of the permit.		

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Pollutant

Particulates

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Tons/Year

2.1

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Akron Regional Air Quality Management District, 146 South High Street, Room 904, Akron, Ohio 44308.**

WASTE DISPOSAL

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

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 **Akron Regional Air Quality Management District, 146 South High Street, Room 904, Akron, Ohio 44308.**

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

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AIR POLLUTION NUISANCES PROHIBITED

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

ADDITIONAL SPECIAL TERMS AND CONDITIONS

A. Permit Profile

1. Operations/Equipment

Admiral Heintz, Inc. is seeking a Permit-to-Install (PTI) for a new electrically-heated crucible aluminum melt furnace (OEPA emissions unit ID #F009) installed and operating at their facility located in Wadsworth, Medina County, Ohio (OEPA facility ID #1652100076). The new furnace, with a company-reported maximum process weight rate (PWRmax) of 500 lbs/hr of aluminum, is used to melt down clean aluminum ingots, clean aluminum pigs, and clean foundry returns for casting into aluminum tire molds for sale to the tire manufacturing industry. Because the permittee only buys clean, low-contaminant (i.e., containing small quantities of impurities such as magnesium, iron, etc.) aluminum material, neither demagging of the aluminum melt nor the employment of cover or solvent fluxing agents for impurity removal is necessary. Degassing the aluminum melt is performed in a separate side operation, not part of the melt furnace, in a bull ladle using primarily argon gas. This degassing operation is assumed to result in negligible emissions of particulates. As such, particulate emissions, the only significant pollutant from this emissions unit, result only from melting activities. Emissions Unit F009 is a fugitive dust source, with no pollution controls.

2. Rules Applicability/BAT Determination

The above plant is located in an "Appendix A" geographical area, as specified in Appendix A of Ohio Administrative Code (OAC) rule 3745-17-08, and in so being, is defined as an "Appendix A" facility.

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Therefore, fugitive dust source F009 is subject to OAC rule 3745-17-08, restricting emissions of fugitive dust. Since Emissions Unit F009 shall be restricted to: (1) heating only via electricity; (2) melting only clean aluminum materials; and (3) employment of neither degassing nor demagging, all of which satisfies the employment of "best available technology" (BAT) as required per OAC rule 3745-31-05 for new sources, the provisions of Paragraph (B) of OAC rule 3745-17-08 are not appropriate in order to comply with OAC rule 3745-17-08. With the restrictions of BAT alone imposed, potential emissions of particulates are only 11.4 lbs/day (based on the AP-42, 4th edition, Table 7.8-1 particulates emission factor of 1.9 lbs/ton of aluminum processed). Therefore, BAT is sufficient to comply with OAC rule 3745-17-08.

Since the requirements of OAC rule 3745-17-08 are applicable to Emissions Unit F009, then per OAC rule 3745-17-11(A)(1)(f), the requirements of OAC rule 3745-17-11 are not applicable to Emissions Unit F009.

3. Emission Limits

The daily and annual particulates emission limits are based on the emissions unit's potential to emit. Therefore, no recordkeeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with these limits.

B. Operational Restrictions

1. Emissions Unit F009 shall be limited to only electricity as the heat source.
2. Emissions Unit F009 shall be charged with only clean aluminum materials (clean aluminum ingots, clean aluminum pigs, and clean foundry returns). Aluminum scrap or contaminated pigs, ingots, or foundry returns shall not be employed in this emissions unit.
3. Emissions Unit F009, or any melt activity associated with Emissions Unit F009, shall not be demagged. Also, except for degassing primarily with argon gas, no other flux (i.e., degassing, cover, or solvent fluxes, etc.) shall be employed in this emissions unit or associated melt activity.

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4. The permittee shall employ best available operating practices to minimize air contaminant emissions from this emissions unit.

C. Monitoring and/or Recordkeeping Requirements

None

D. Reporting requirements

1. 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 Akron Regional Air quality Management District; and,
 - 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 Akron Regional Air quality Management District. 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.)

E. Testing Requirements

1. Compliance with the visible emission limitation in this permit shall be determined in accordance with the

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following method:

Emission Limitation: 20% opacity as a 3-minute average

Applicable Compliance Method: Compliance shall be determined by visible particulate emission evaluations performed using the procedures specified in USEPA Method 9.

F. Miscellaneous Requirements

None