



FINAL DETERMINATION

FOR

Chromalloy Castings, Tampa Corporation

Hillsborough County

Construction Permit

Application Number

0571408-006-AC

Environmental Protection Commission of

Hillsborough County

Tampa, FL

February 9, 2015

## FINAL DETERMINATION

The Environmental Protection Commission of Hillsborough County mailed a public notice package on December 24, 2014 that included an Intent to Issue Permit No. 0571408-006-AC to Chromalloy Castings, Tampa Corporation. The facility is located at 3401 Queen Palm Dr., Tampa, Hillsborough County, FL 33619. This permit authorizes construction of a second wheel cut-off saw for the alloy manufacturing process which will be vented to a new baghouse. In addition, this permit authorizes the venting of the existing wheel cut-off saw and the existing abrasive belt roller mill to this new baghouse.

The Public Notice of Intent to Issue was published in The Tampa Tribune on January 23, 2015.

### COMMENTS/CHANGES

No comments were received from the applicant or the public.

### CONCLUSION

The final action of the Environmental Protection Commission of Hillsborough County is to issue the permit as drafted with the changes noted above.

ENVIRONMENTAL PROTECTION COMMISSION OF  
HILLSBOROUGH COUNTY, as Delegated by

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

NOTICE OF PERMIT

Bryan Williams  
Chromalloy Castings Tampa Corporation  
3401 Queen Palm Dr.  
Tampa, Fl 33619

Dear Mr. Williams:

Enclosed is Permit Number 0571408-006-AC to construct a second wheel cut-off saw for the alloy manufacturing process which will be vented to a new baghouse. In addition, this permit authorizes the venting of the existing wheel cut-off saw and the existing abrasive belt roller mill to this new baghouse, issued pursuant to Section 403.087, Florida Statutes.

Any party to this order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the EPC in the Legal Department at 3629 Queen Palm Drive, Tampa, Florida 33619; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the clerk of the EPC.

Executed in Tampa, Florida.

Sincerely,

Richard D. Garrity, Ph.D.  
Executive Director

RDG/LAW/law

Chromalloy Castings, Tampa Corporation  
Tampa, FL 33619

Page 2 of 2

cc: Florida Department of Environmental Protection (posting online)  
Omana Antony Taylor, P.E. – ETG, Inc. (via email)

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on \_\_\_\_\_ to the listed persons.

FILING AND ACKNOWLEDGEMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the clerk, receipt of which is hereby acknowledged.

\_\_\_\_\_  
Clerk

\_\_\_\_\_  
Date

PERMITTEE:

Chromalloy Castings Tampa Corporation  
3401 Queen Palm Dr.  
Tampa, FL 33619

PERMIT/CERTIFICATION

Permit No: 0571408-006-AC  
County: Hillsborough  
Expiration Date: January 15, 2016  
Project: Alloy Manufacturing Process

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 62-204, 62-210, 62-212, 62-296, 62-297, and 62-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the EPC and made a part of hereof and specifically described as follows:

This permit authorizes construction of a second wheel cut-off saw for the alloy manufacturing process which will be vented to a new baghouse. In addition, this permit authorizes the venting of the existing wheel cut-off saw and the existing abrasive belt roller mill to this new baghouse.

The alloy manufacturing process starts by melting metal pellets in a Consarc vacuum induction melting furnace. The furnace, which operates on electricity provided by TECO, uses high heat and high pressure to melt and blend the pellets. The furnace produces a metal alloy brick(s) that will either be shipped to an outside company or will be used in Chromalloy's metal casting product operation. When the vacuum on the furnace chamber is released, the furnace chamber is vented to a 3,000 DSCFM US Air Filtration, Model No. 2DCP8, baghouse.

The existing wheel cut-off saw is used to cut the top and bottom edges off of the alloy brick. The new wheel cut-off saw will be used to cut the alloy brick to the required size. In addition, the belt roller mill is used to blast and polish the alloy brick as needed. Currently, the existing wheel cut-off saw and the existing abrasive belt roller mill are vented to one of two portable 800 CFM baghouses, which vent indoors. All three pieces of equipment will be vented to the new 4,000 DSCFM Donaldson Torit, Model No. DFR3-6, pulse jet baghouse.

The vacuum induction furnace and it's baghouse, and the following auxiliary equipment are exempt from permitting pursuant to Rule 62-210.300(3)(b)1., F.A.C. - Generic Emissions Unit or Activity Exemption, F.A.C. because each piece of equipment neither emits nor has the potential to emit

1.0 ton per year of particulate matter emissions. Also, the furnace and the following equipment are exempt from Rule 62-296.700(2)(c), F.A.C. - Reasonably Available Control Technology (RACT) Particulate Matter;

- One 1.0 mmBtu/hr Mold Heating Oven
- Two 0.2 mmBtu/hr Tundish Refractory Heaters
- One 0.6 mmBtu/hr Portable Crucible Heating Torch

Chromalloy Casting is a metal casting product manufacturing facility. The metal casting product process includes wax injection molding; four 1.0 MMBtu/hr Pacific Kiln wax burn-off ovens with afterburners; four pre-heat ovens; eight vacuum furnaces; and two rollover furnaces. The facility uses natural gas for fueling the wax burn-off ovens and the pre-heat ovens.

Emission Unit No.:

EU ID No.	Description
010	Alloy Manufacturing

Location: 3401 Queen Palm Dr., Tampa, FL 33619

UTM: 17- 349.00E and 3100.00N NEDS No: 1408

Replaces Permit No.: NA

References Permit No.: NA

1. A part of this permit is the attached General Conditions. [Rule 62-4.160, F.A.C.]
2. All applicable rules of the Environmental Protection Commission of Hillsborough County including design discharge limitations specified in the application shall be adhered to. The permit holder may also need to comply with county, municipal, federal, or other state regulations prior to construction. [Rule 62-4.070(7), F.A.C.]
3. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C., or any other requirements under federal, state, or local law. [Rule 62-210.300, F.A.C.]
4. The permittee shall not cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor. [Rule 62-296.320(2), F.A.C.]
5. As requested by the permittee, in order to limit the potential to emit and establish the facility as a synthetic minor for PM and Hazardous Air Pollutants (HAP), the following emission limitations shall apply per any twelve consecutive month period: [Rules 62-4.070(3) and 62-210.200, F.A.C. and Construction Permit Application Received November 20, 2014]
  - A) The allowable particulate matter emissions from the baghouse associated with EU No. 010 shall not exceed 0.03 grains/DSCF.
  - B) The hours of operation of EU No. 010 shall not exceed 5,000 hours/year.
  - C) The HAP, as defined in Rule 62-210.200, F.A.C., emissions shall be less than 10 tons for any individual HAP and less than 25 tons for any combination of HAPs.
6. The permittee shall not cause, permit, or allow any visible emissions (5% opacity) from Emission Unit No. 010. [Rule 62-296.712(2), F.A.C. and Chapter 1-3.52, Rules of the EPC]
7. The following restrictions and limitations shall apply in order to ensure compliance with Specific Condition No. 6: [Rule 62-4.070(3), F.A.C. and Construction Permit Application November 20, 2014]
  - A) The cutting and blasting/polishing operations shall be performed within fully enclosed booths.
  - B) Each cutting and blasting/polishing booth shall be ducted and vented to the baghouse.
  - C) The baghouse shall be kept in good repair.
8. Test the Alloy Manufacturing baghouse (EU No. 010) for visible emissions at the point of highest opacity within 60 days of startup and annually thereafter. Submit two copies of the test data to the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of such testing. The EPA Method 9 test for the emission units shall be a minimum of thirty (30) minutes in duration. Testing procedures shall be consistent with the requirements of Rule 62-297, F.A.C. [Rule 62-297.310(4)(a)2. and (7)(a)4.a., F.A.C. and Ch. 1-3.52 of the Rules of the EPCHC]
9. Compliance with the emission limitations of Specific Condition No. 6 shall be determined using EPA Method 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Rule 62-297, F.A.C. and 40 CFR 60, Appendix A. [Rule 62-297.401, F.A.C.]

10. Testing of emissions shall be conducted with the source operating at capacity. Capacity is defined as operating both wheel cut-off saws and the abrasive belt roller mill at the same time. If it is impracticable to test at capacity, then the source may be tested at less than capacity; in this case subsequent source operation is limited to the number of machines that operated on the day of the test. Once the unit is so limited, then operation at higher capacities is allowed for no more than fifteen days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the EPC. Failure to submit the number of machines in operation during the test may invalidate the test. [Rules 62-4.070(3) and 62-297.310(2)(b), F.A.C.]

11. The permittee shall notify the Air Compliance Section of the Environmental Protection Commission of Hillsborough County at least 15 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the contact person who will be responsible for coordinating and having such test conducted. [Rule 62-297.310(7)(a)9., F.A.C.]

12. In order to demonstrate compliance with Specific Condition No. 5, the permittee shall maintain a monthly recordkeeping system. The records shall be maintained onsite for three years and shall be made available to any local, state, or federal air pollution agency upon request. The records shall include, but are not limited to, the following: [Rules 62-4.070(3) and 62-4.160(14), F.A.C.]

- A) Month/Year
- B) Hours of operation of the baghouse
- C) Rolling twelve month total of B) above

13. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 62-296.320, F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling. Reasonable precautions shall include, but not limited to, the following: [Rule 62-296.320(4)(c), F.A.C.]

- A) Removal of particulate matter from paved areas, buildings, and work areas under the control of the owner/operator.
- B) Ensure that waste collected by the baghouses is effectively contained and disposed of properly.
- C) Clean accidental spills promptly.
- D) Exercise good housekeeping at all times.

14. When the Environmental Protection Commission of Hillsborough County (EPC) after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in Rules 62-204, 62-210, 62-212, 62-296, or 62-297, F.A.C., or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the source to conduct compliance tests which identify the nature and quantity of pollutant emissions from the source and to provide a report on the results of said tests to the EPC. [Rules 62-297.310(7)(b) and 62-4.070(3), F.A.C.]

15. The permittee shall not store, handle, process, or use in any process the volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems as follows and as deemed necessary and ordered by the Environmental Protection Commission of

Hillsborough County: [Rule 62-296.320(1), F.A.C.]

- A) Maintain tightly fitting cover, lids, etc. on all containers when they are not being handled, tapped, etc.
- B) Where possible and practical, procure/fabricate a tightly fitting cover for any open trough, basin, etc. of VOC so that it can be covered when not in use.
- C) Immediately attend to all spills/waste as appropriate.

16. The permittee shall provide timely notification to the Environmental Protection Commission of Hillsborough County prior to implementing any changes that may result in a modification to this permit pursuant to Rule 62-210.200(185), F.A.C., Modification. The changes do not include normal maintenance, but may include, and are not limited to, the following, and may also require prior authorization before implementation: [Rules 62-210.300 and 62-4.070(3), F.A.C.]

- A) Alteration or replacement of any equipment or major component of such equipment.
- B) Installation or addition of any equipment which is a source of air pollution.

17. If the permittee wishes to transfer this permit to another owner, an "Application for Transfer of Permit" (DEP Form 62-210.900(7)) shall be submitted, in duplicate, to the Environmental Protection Commission of Hillsborough County within 30 days after the sale or legal transfer of the permitted facility. [Rule 62-4.120, F.A.C.]

18. Submit to the Environmental Protection Commission of Hillsborough County each calendar year on or before April 1, completed DEP Form 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility", for the preceding calendar year. [Rule 62-210.370(3)(c), F.A.C.]

19. In order to provide reasonable assurance that the baghouse associated with the Alloy Manufacturing Process (EU No. 010), the afterburners associated with the wax burn-off ovens (EU No. 002), and the scrubber associated with the Finished Parts Inspection Process (EU No. 005) will operate and be maintained to perform adequately the function for which it is intended, an Operation and Maintenance Plan (O & M plan) shall be submitted with the air operation permit application. The O & M Plan shall include daily, weekly, and monthly maintenance checks for the baghouse, afterburners, and the scrubber. [Rules 62-296.700(6) and 62-4.070(3), F.A.C.]

20. A minimum of two copies of an air operating permit application shall be submitted to the Environmental Protection Commission of Hillsborough County within 60 days of completion of the compliance test, along with the O & M Plan, or at least 90 days prior to the expiration date of this permit, whichever occurs first. [Rules 62-4.050(2) and 62-4.090, F.A.C.]

ENVIRONMENTAL PROTECTION COMMISSION  
OF HILLSBOROUGH COUNTY

---

Richard D. Garrity, Ph.D.  
Executive Director