TECHNICAL EVALUATION

AND

PRELIMINARY DETERMINATION

FOR

Chromalloy Castings, Tampa Corporation

Hillsborough County

Construction Permit

Application Number

0571408-006-AC

Environmental Protection Commission of

Hillsborough County

Tampa, FL

December 24, 2014

I. Project Description

A. Applicant:

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

B. Engineer:

Omana Antony Taylor, P.E.
P.E. No.: 51996
ETG, Inc.
14948 Sunrise Dr. NE
Bainbridge Island, WA 98110

C. Project and Location:

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 project has been assigned NEDS Source Classification Code No. 3-04-050-01 for Industrial Processes, Secondary Metal Production, Miscellaneous Casting Fabricating, Other Not Classified. The Standard Industrial Code for the project is No. 37 for Transportation Equipment. The facility is located at 3401 Queen Palm Dr., Tampa, FL 33619. UTM Coordinates of the location are 17- 349.00E and 3100.00N.

D. Process and Controls:

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. 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.

The alloy manufacturing process starts by melting metal pellets in a vacuum induction 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

The facility is subject to Rule 62-296.320, F.A.C. - General Pollutant Emission Limiting Standards. In addition, the facility is subject to Rule 62-296.712, F.A.C. – Miscellaneous Manufacturing Process Operations because the facility wide potential PM emissions, including the exempt emission sources, is 22.7 tons/year, which is greater than the 15 tons/year exemption threshold specified in Rule 62-296.700(2)(a), F.A.C.

E. Application Information:

Received on: November 20, 2014
Information Requested: N/A
Application Complete: November 20, 2014

II. Rule Applicability

This project is subject to the preconstruction review requirements of Chapter 403, Florida Statutes, Chapters, 62-204, 62-210, 62-212, 62-296, and 62-297, Florida Administrative Code (F.A.C.) and Chapter 1-3 of the Rules of the Environmental Protection Commission of Hillsborough County.

This project is subject to the requirements of Rule 62-212.300, General Preconstruction Review Requirements, F.A.C., since the project is not exempt from the permit requirements in Rule 62-210.300, F.A.C.

This project is not subject to the requirements of Rule 62-212.400, Prevention of Significant Deterioration, F.A.C. or Rule 62-212.500, New Source Review for Nonattainment Areas, F.A.C. since the facility is a Synthetic Non-TV facility by state definition.

This project is not subject to the requirements of Rule 62-213, Operation Permits for Major Sources of Air Pollution, F.A.C., since the facility is a Synthetic Non-TV facility by state definition.

This project is subject to the requirements of Rule 62-296.320, General Pollutant Emission Limiting Standards, F.A.C., since the project is a source of particulate matter (PM) emissions and visible emissions.

This project is not subject to the requirements of Rule 62-296.340, through 62-296.470, Specific Emission Limiting and Performance Standards, F.A.C., since there is no applicable source specific category in this rule.

This project is not subject to the requirements of Rule 62-296.500, Volatile Organic Compounds and Nitrogen Oxides Reasonably Available Control Technology, F.A.C., since there is no applicable source specific category in this rule.

This project is not subject to the requirements of Rule 62-296.600, Reasonably Available Control Technology - Lead, F.A.C., since there is no applicable source specific category in this rule.

This project is subject to the requirements of Rule 62-296.700, Reasonably Available Control Technology – Particulate Matter, F.A.C. because the facility potential PM emissions are greater than fifteen tons per year and five pounds per hour and there is an applicable source specific category in this rule, specifically Rule 62-296.712, F.A.C. – Miscellaneous Manufacturing Process Operations.

This project is not subject to the requirements of Rule 62-204.800, Federal Regulations Adopted by Reference, F.A.C., since there is not an applicable source specific category in this rule.

This project is subject to the requirements of Chapter 84-446, Laws of Florida and Chapter 1-3, Rules of the Environmental Protection Commission of Hillsborough County.

III. Summary of Emissions

Potential Particulate (PM) Emissions

Emission Unit (EU) No.	**EU Description**	Potential PM Emissions (tons/yr)	Actual PM Emissions (tons/yr)	Increase in PM Emissions (tons/yr)	**Allowable**
010	Alloy Manufacturing	2.6	0	2.6	0.03 gr/dscf and 5% opacity
	Potential to Emit	**2.6**	**0**	**2.6**	--

Inventory of Title III pollutants is estimated to be less than 10 TPY individually and less than 25 TPY collectively.

- The potential emissions for EU No. 010 are based on a grain loading limit of 0.03 gr/dscf, an airflow rate of 4,000 DSCFM for the baghouse, and 5,000 hours/year of operation.

IV. Conclusions:

The emission limits proposed by the applicant will meet all of the requirements of Chapters 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C., and Chapter 1-3, Rules of the Commission.

The General and Specific Conditions listed in the proposed permit (attached) will assure compliance with all the applicable requirements of Chapters 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C.

V. Proposed Agency Action:

Pursuant to Section 403.087, Florida Statutes and Rule 62-4.070, Florida Administrative Code the Environmental Protection Commission of Hillsborough County hereby gives notice of its intent to issue a permit to construct the aforementioned air pollution source in accordance with the draft permit and its conditions as stipulated (see attached).

CERTIFIED MAIL

In the Matter of an
Application for Permit by:

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

File No.: 0571408-006-AC
County: Hillsborough

INTENT TO ISSUE

The Environmental Protection Commission of Hillsborough County (EPC), as delegated by the Florida Department of Environmental Protection (DEP) gives notice of its intent to issue a permit (copy attached) for the proposed project as detailed in the application specified above, for the reasons stated below.

The applicant, Chromalloy Castings Tampa Corporation, applied on November 20, 2014 to the EPC to construct a second wheel cut-off saw for the alloy manufacturing process which will be vented to a new baghouse. Also, this permit authorizes the venting of the existing wheel cut-off saw and the existing abrasive belt roller mill to this new baghouse. The facility, which is a Synthetic Non-Title V Source, is located at 3401 Queen Palm Dr., Tampa, Hillsborough County, FL 33619.

The EPC has permitting jurisdiction under Chapter 403 Florida Statutes (F.S.) and Florida Administrative Code (F.A.C.) Chapters 62-4 and 62-210. The project is not exempt from permitting procedures. The EPC has determined that an air pollution construction permit is required to commence or continue operations at the described facility.

The EPC intends to issue this permit based on the belief that reasonable assurances have been provided to indicate that operation of the source will comply with the appropriate provisions of Florida Administrative Code (F.A.C.) Chapters 62-204 through 62-297 and 62-4.

Pursuant to Pursuant to Section 403.815 and 403.0872, F.S. and Rules 62-103.150 and62-210.350(3), F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permit. The notice shall be published one time as soon as possible, in the

legal advertisement section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. Where there is more than one newspaper of general circulation in the county, the newspaper used must be one with significant circulation in the area that may be affected by the permit. If you are uncertain that a newspaper meets these requirements, please contact the EPC at the address or telephone number listed below. **The applicant shall provide proof of publication to the EPC, Air Permitting Section, at 3629 Queen Palm Drive, Tampa, Florida 33619 (Phone 813-627-2600 - FAX 813-627-2660) within 7 (seven) days of publication.** Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit pursuant to Rule 62-103.150(6), F.A.C.

The EPC will issue the final permit with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to Section 120.569 and 120.57 F.S. before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Legal Department of the EPC at 3629 Queen Palm Drive, Tampa, Florida 33619, Phone 813-627-2600, Fax 813-627-2602. Petitions filed by the permit applicant or any of the parties listed below must be filed within 14 (fourteen) days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within 14 (fourteen) days of publication of the public notice or within 14 (fourteen) days of receipt of this notice of intent, whichever occurs first. Under Section 120.60(3), however, any person who asked the EPC for notice of agency action may file a petition within 14 (fourteen) days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S.; or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the EPC's action is based must contain the following information:

(a) The name and address of each agency affected and each agency's file or identification number if known;

(b) The name, address, and telephone number of the petitioner and the name, address, and telephone number of each petitioner's representative, if any, which shall be the address for service purposes during the course of the proceedings; and an explanation of how the petitioner's substantial interests will be affected by the EPC's determination;

(c) A statement of how and when the petitioner received notice of the EPC action;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the EPC's proposed action;

(f) A statement of specific rules or statutes the petitioner contends requires reversal or modification

of the EPC's proposed action; and

(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the EPC to take with respect to the EPC's proposed action.

A petition that does not dispute the material facts upon which the EPC's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the EPC's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the EPC on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation under section 120.573, F.S. is not available in this proceeding.

This action is final and effective on the date filed with the Clerk of the EPC unless a petition is filed in accordance with above. Upon the timely filing of a petition, this order will not be effective until further order of the EPC.

In addition to the above, a person subject to regulation has a right to apply to the Department of Environmental Protection for a variance from or waiver of the requirements of particular rules, on certain conditions, under Section 120.542, F.S. The relief provided by this state statute applies only to state rules, not statutes, and not to any federal regulatory requirements. Applying for a variance or waiver does not substitute or extend the time for filing a petition for an administrative hearing or exercising any other right that a person may have in relation to the action proposed in this notice of intent.

The application for a variance or waiver is made by filing a petition with the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, FL 32399-3000. The petition must specify the following information:

(a) The name, address, and telephone number of the petitioner,
(b) The name, address, and telephone number of the attorney or qualified representative of the petitioner, if any,
(c) Each rule or portion of a rule from which a variance or waiver is requested,
(d) The citation to the statute underlying (implemented by) the rule identified in (c) above,
(e) The type of action requested,
(f) The specific facts that would justify a variance or waiver for the petitioner,
(g) The reason by the variance or waiver would serve the purposes of the underlying statute (implemented by the rule), and
(h) A statement whether the variance or waiver is permanent or temporary and, if temporary, a statement of the dates showing the duration of the variance or waiver requested.

The Department will grant a variance or waiver when the petition demonstrates both that the application of the rule would create a substantial hardship or violate principles of fairness, as each of the those terms is defined in Section 120.542(2), F.S., and that the purpose of the underlying statute will be or

has been achieved by other means by the petitioner.

Persons subject to regulation pursuant to any federally delegated or approved air program should be aware that Florida is specifically not authorized to issue variances or waivers from any requirements of any such federally delegated or approved program. The requirements of the program remain fully enforceable by the Administrator of United States Environmental Protection Agency and by any person under the Clean Air Act unless and until the Administrator separately approves any variance or waiver in accordance with the procedures of the federal program.

Any person listed below may request to obtain additional information, a copy of the application (except for information entitled to confidential treatment pursuant to Section 403.111, F.S.), all relevant supporting materials, and all other materials available to the EPC that are relevant to the permit decision. Interested persons may contact Diana M. Lee, P.E., at the above address or call (813) 627-2600, for additional information.

Any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statues, by filing a notice of appeal under rule 9.110 of the Florida rules of Appellate Procedure with the EPC's Legal Office at 3629 Queen Palm Dr., Tampa, Florida 33619 and with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, 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 must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Tampa, Florida

ENVIRONMENTAL PROTECTION COMMISSION
OF HILLSBOROUGH COUNTY

_____
Richard D. Garrity, Ph.D.
Executive Director

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 Statues, with the clerk, receipt of which is hereby acknowledged.

_____ _____
Clerk Date

ENVIRONMENTAL PROTECTION COMMISSION
OF HILLSBOROUGH COUNTY
NOTICE OF INTENT TO ISSUE PERMIT

The Environmental Protection Commission of Hillsborough County (EPC), as delegated by the Florida Department of Environmental Protection (DEP), gives notice of its intent to issue an air pollution Permit No. 0571408-006-AC to Chromalloy Castings Tampa Corporation to construct a second wheel cut-off saw for the alloy manufacturing process which will be vented to a new baghouse. Also, this permit authorizes the venting of the existing wheel cut-off saw and the existing abrasive belt roller mill to this new baghouse. The facility, which is a Synthetic Minor Source, is located at 3401 Queen Palm Dr., Tampa, Hillsborough County, FL 33619.

A Best Available Control Technology (BACT) determination was not required.

The EPC will issue the Final permit with the conditions of the DRAFT permit unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57, F.S. before the deadline for filing a petition. The procedures for petitioning for hearing are set forth below.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Legal Department of the EPC at 3629 Queen Palm Drive, Tampa, Florida 33619, Phone 813-627-2600, Fax 813-627-2602. Petitions filed by the permit applicant or any of the parties listed below must be filed within 14 (fourteen) days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within 14 (fourteen) days of publication of the public notice or within 14 (fourteen) days of receipt of this notice of intent, whichever occurs first. Under Section 120.60(3), however, any person who asked the EPC for notice of agency action may file a petition within 14 (fourteen) days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the F.A.C.

A petition that disputes the material facts on which the EPC's action is based must contain the following information:

(a) The name and address of each agency affected and each agency's file or identification number if known;

(b) The name, address, and telephone number of the petitioner, and the name, address, and telephone number of each petitioner's representative, if any, which shall be the address for service purposes during the course of the proceedings; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;

(c) A statement of how and when petitioner received notice of the EPC action;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the EPC proposed action;

(f) A statement of specific rules or statutes the petitioner contends requires reversal or modification of the EPC's proposed action; and

(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the EPC to take with respect to the EPC's proposed action.

A petition that does not dispute the material facts upon which the EPC's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above as required by Rule 28-106.301.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the EPC's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the EPC on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation under section 120.573, F.S. is not available in this proceeding.

This action is final and effective on the date filed with the Clerk of the EPC unless a petition is filed in accordance with above. Upon the timely filing of a petition this order will not be effective until further order of the EPC.

Any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statues, by filing a notice of appeal under rule 9.110 of the Florida rules of Appellate Procedure with the EPC's Legal Office at 3629 Queen Palm Drive, Tampa, Florida 33619 and with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, 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 must be filed within thirty days after this order is filed with the clerk of the Department.

The complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Environmental Protection Commission of Hillsborough County, 3629 Queen Palm Drive, Tampa, Florida 33619. The complete project file includes the proposed Permit, the application, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact Diana M. Lee, P.E., at the above address, or call 813-627-2600, for additional information. Any written comments filed shall be available for public inspection. If written comments received result in a significant change in the proposed agency action, the EPC shall revise the proposed permit and require, if applicable, another Public Notice.

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

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 Statues, 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 vacuum induction 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

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Richard D. Garrity, Ph.D.
Executive Director