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Wetlands Management	Scott Emery, Ph.D.

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

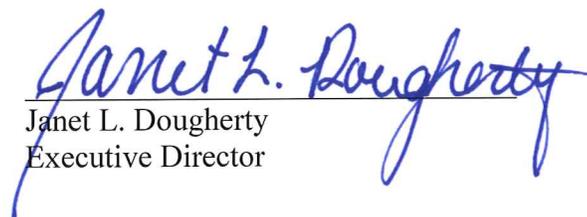
RE: 0571408-007-AC
Minor Air Construction Permit
New Afterburner for One Casting Mold Wax Burn-Off Oven

Dear Mr. Williams:

On September 25, 2015, you submitted an application to construct a new afterburner at your metal casting product facility. The new afterburner will control emissions from the Casting Molds Oven No. 1, which is a natural gas fired Pacific Kiln wax burn-off oven. This facility is located in Hillsborough County at 3401 Queen Palm Dr., Tampa, Florida 33619.

After review of the application, the following documents have been prepared: the Technical Evaluation and Preliminary Determination; the Draft Permit; the Written Notice of Intent to Issue Air Permit; and the Public Notice of Intent to Issue Air Permit. The Public Notice of Intent to Issue Air Permit is the actual notice that you must publish in the legal advertisement section of a newspaper of general circulation in the area affected by this project. If you have any questions, please contact Diana M. Lee, P.E. at 813-627-2600 x1276, or by e-mail at lee@epchc.org.

Sincerely,


Janet L. Dougherty
Executive Director

Enclosures

JLD/LAW/law

TECHNICAL EVALUATION
AND
PRELIMINARY DETERMINATION
FOR
Chromalloy Castings, Tampa Corporation
Hillsborough County
Construction Permit
Application Number
0571408-007-AC
Environmental Protection Commission of
Hillsborough County
Tampa, FL
October 27, 2015

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.
12 Halfmoon River Ct.
Savannah, GA 31410

C. Project and Location:

This permit authorizes the construction of one new, 1.0 MMBtu/hr afterburner at a metal casting product facility. 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. 39 for Miscellaneous Manufacturing Industries. 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 the construction of one new afterburner at a metal casting product facility. The facility has six wax burn-off ovens all of which vent to an afterburner. Currently, two of the 1.0 MMBtu/hr, Pacific Kiln wax burn-off ovens, Oven Nos. 1 and 2, vent to one 0.75 MMBtu/hr afterburner. The new 1.0 MMBtu/hr afterburner will control emissions from the Casting Molds Oven No. 1, which is a natural gas fired, 1.0 MMBtu/hr, Pacific Kiln wax burn-off oven. Oven No. 2 will continue to vent to the existing 0.75 MMBtu/hr afterburner.

The metal casting product process begins with wax injection molding. Casting molds are injected with wax and stored inside the building to allow for cooling. Once cooled, the molds are dipped into a tank containing a VOC based solvent to clean the mold. The molds are then covered with sand or stucco using an automated system to create a ceramic covering over the wax mold.

Once the ceramic covering has dried, the molds are put into one of two electric powered steam autoclaves which use high temperatures to melt the wax out of the mold. The autoclaves are exempt from permitting because the wax is not volatilized, therefore, there are no emissions associated with the autoclaves. To burn off any residual wax which may remain inside of the mold, the molds are placed in one of four identical, natural gas fired 1.0 MMBtu/hr Pacific Kiln wax burn-off ovens. Oven Nos. 3 and 4 each have their own afterburner rated at 1.0 MMBtu/hr each.

The molds are placed in one of four pre-heat ovens and then into one of eight vacuum furnaces where metal ingots are melted down and the molds are filled with molten metal. Once cast, the molds are moved to an adjacent area where they are left for several days to cool. The facility uses natural gas for fueling the wax burn-off ovens and the pre-heat ovens.

Once the mold has cooled, the parts are separated from the mold and grit blasted; placed in a heated tank containing sodium hydroxide to leach the core(s); and/or buffed, as needed, to ensure that all of the ceramic and the core(s) is removed from the metal part. The metal parts are then placed into one of six vacuum heat treat ovens, which use negative pressure and heat to harden the part. The finished parts are stored onsite until ready to be shipped to customers.

The potential PM emissions for EU No. 002 are calculated to be 8.4 tons/year. Emissions are calculated based on the weight of the wax processed in the wax burn-off ovens, a 99% control efficiency for each afterburner, and 8,760 hours of operation.

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 15.8 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: September 25, 2015

Information Requested: N/A

Application Complete: September 25, 2015

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

Emission Unit (EU) No.	EU Description	Potential PM Emissions (tons/yr)	Actual PM Emissions (tons/yr)	Increase in PM Emissions (tons/yr)	Allowable
002	Wax Burn-Off Ovens with Afterburners	8.4	0.03	8.4	5% opacity

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

- The actual emissions are based on the average of 2013 and 2014 AOR data.
- The potential emissions for EU No. 002 are based on the weight of the wax processed in the wax burn-off ovens, a 99% control efficiency for each afterburner, and 8,760 hours 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).

COMMISSION

Kevin Beckner Lesley "Les" Miller, Jr.
Victor D. Crist Sandra L. Murman
Ken Hagan Stacy White
Al Higginbotham



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Waste Management Hooshang Boostani, P.E.
Water Management Sam Elrabi, P.E.
Wetlands Management Scott Emery, Ph.D.

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

*In the Matter of an
Application for Air Permit by:*

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

Project No. 0571408-007-AC
Minor Air Construction Permit
Hillsborough County, Florida

Authorized Representative:
Bryan Williams

*New Afterburner for the Wax Burn-Off Oven
No. 1*

Facility Location: Chromalloy Castings Tampa Corp. operates the existing facility, which is located in Hillsborough County at 3401 Queen Palm Dr., Tampa, FL, 33619.

Project: This permit authorizes the construction of one new 1.0 MMBtu/hr afterburner at a metal casting product facility. The new afterburner will control emissions from the Casting Molds Oven No. 1, which is a natural gas fired, 1.0 MMBtu/hr, Pacific Kiln wax burn-off oven.

Permitting Authority: Applications for air construction and operation permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210 and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Permitting Authority responsible for making a permit determination for this project is the Environmental Protection Commission of Hillsborough County. The Permitting Authority's physical address is: 3629 Queen Palm Dr., Tampa, FL 33619. The Permitting Authority's mailing address is: 3629 Queen Palm Dr., Tampa, FL 33619. The Permitting Authority's telephone number is 813/627-2600.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at address indicated above for the Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact Diana M. Lee, P.E. for additional information at the address or phone number listed above.

Notice of Intent to Issue Permit: The Permitting Authority gives notice of its intent to issue an air permit to the applicant for the project described above. The applicant has provided

reasonable assurance that operation of the proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C. The Permitting Authority will issue a Final Permit in accordance with the conditions of the proposed Draft Permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

Public Notice: Pursuant to Section 403.815, F.S. and Rules 62-110.106 and 62-210.350, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue Air Permit (Public Notice). The Public Notice shall be published one time only as soon as possible in the legal advertisement section of a newspaper of general circulation in the area affected by this project. The newspaper used must meet the requirements of Sections 50.011 and 50.031, F.S. in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the Permitting Authority at above address or phone number. Pursuant to Rule 62-110.106(5) and (9), F.A.C., the applicant shall provide proof of publication to the Permitting Authority at the above address within 7 days of publication. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rule 62-110.106(11), F.A.C.

Comments: The Permitting Authority will accept written comments concerning the proposed Draft Permit for a period of 14 days from the date of publication of the Public Notice. Written comments must be received by the Permitting Authority by close of business (5:00 p.m.) on or before the end of the 14-day period. If written comments received result in a significant change to the Draft Permit, the Permitting Authority shall revise the Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. Petitions filed by the applicant or any of the parties listed below must be filed within 14 days of receipt of this written notice of Intent to Issue Air Permit. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the attached Public Notice or within 14 days of receipt of this written notice of Intent to Issue Air Permit, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 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. A petition for administrative hearing 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, before the deadline. 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 (in a proceeding initiated by another party) 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.

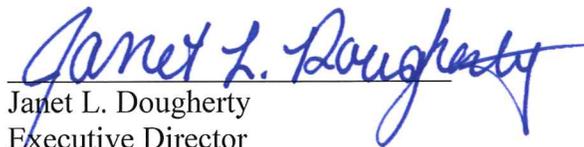
A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, any email address, telephone number and

any facsimile number of the petitioner; the name, address, any email address, telephone number, and any facsimile number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of when and how each petitioner received notice of the agency action or proposed decision; (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 agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority'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 Permitting Authority's final action may be different from the position taken by it in this written notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available in this proceeding.

Executed in Hillsborough County, Florida.


Janet L. Dougherty
Executive Director

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Written Notice of Intent to Issue Air Permit package (including the Written Notice of Intent to Issue Air Permit, the Public Notice of Intent to Issue Air Permit, the Technical Evaluation and Preliminary Determination and the Draft Permit) was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested or by certified mail before the close of business on the date indicated below to the persons listed below.

Bryan Williams – Chromalloy Castings Tampa Corp.
Florida Department of Environmental Protection, Southwest District (posting online)
Omana Taylor, P.E. – ETG, Inc. (via e-mail)

Clerk Stamp

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



(Clerk)

10/27/2015

(Date)

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT
ENVIRONMENTAL PROTECTION COMMISSION
OF HILLSBOROUGH COUNTY
Draft Minor Air Construction Permit
Project No. 0571408-007-AC
Chromalloy Castings Tampa Corp.
Hillsborough County, Florida

Applicant: The applicant for this project is Chromalloy Castings Tampa Corp. The applicant's authorized representative and mailing address is: Bryan Williams, 3401 Queen Palm Dr., Tampa, FL, 33619.

Facility Location: Chromalloy Castings Tampa Corp. operates the existing facility, which is located in Hillsborough County at 3401 Queen Palm Dr., Tampa, FL, 33619.

Project: This permit authorizes the construction of one new 1.0 MMBtu/hr afterburner at a metal casting product facility. The new afterburner will control emissions from the Casting Molds Oven No. 1, which is a natural gas fired, 1.0 MMBtu/hr, Pacific Kiln wax burn-off oven.

Permitting Authority: Applications for air construction and operation permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210 and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Permitting Authority responsible for making a permit determination for this project is the Environmental Protection Commission of Hillsborough County. The Permitting Authority's physical address is: 3629 Queen Palm Dr., Tampa, FL 33619. The Permitting Authority's mailing address is: 3629 Queen Palm Dr., Tampa, FL 33619. The Permitting Authority's telephone number is 813/627-2600.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at the physical address indicated above for the Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application and information submitted by the applicant (exclusive of confidential records under Section 403.111, F.S.). Interested persons may contact Diana M. Lee, P.E. for additional information at the address and phone number listed above.

Notice of Intent to Issue Air Permit: The Permitting Authority gives notice of its intent to issue an air construction permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a Final Permit in accordance with the conditions of the proposed Draft Permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

Comments: The Permitting Authority will accept written comments concerning the proposed Draft Permit for a period of 14 days from the date of publication of this Public Notice. Written comments must be received by the Permitting Authority by close of business (5:00 p.m.) on or before the end of the 14-day period. If written comments received result in a significant change to the Draft Permit, the

Permitting Authority shall revise the Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the Public Notice or receipt of a written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 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. A petition for administrative hearing 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, before the deadline. 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 (in a proceeding initiated by another party) 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 Permitting Authority'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, any email address, telephone number and any facsimile number of the petitioner; the name, address, any email address, telephone number, and any facsimile number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of when and how each petitioner received notice of the agency action or proposed decision; (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 agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority'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 Permitting Authority's final action may be different from the position taken by it in this written notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available for this proceeding.

COMMISSION
Kevin Beckner Lesley "Les" Miller, Jr.
Victor D. Crist Sandra L. Murman
Ken Hagan Stacy White
Al Higginbotham



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Waste Management Hooshang Boostani, P.E.
Water Management Sam Elrabi, P.E.
Wetlands Management Scott Emery, Ph.D.

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 0571408-007-AC to construct a new afterburner at your metal casting product facility. The new afterburner will control emissions from the Casting Molds Oven No. 1, which is a natural gas fired, Pacific Kiln wax burn-off oven, 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,

DRAFT

Janet L. Dougherty
Executive Director

JLD /LAW/law

Chromalloy Castings, Tampa Corporation
Tampa, FL 33619

Page 2 of 2

cc: Florida Department of Environmental Protection (posting online)
Omana 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.

DRAFT

Clerk

Date

COMMISSION

Kevin Beckner	Lesley "Les" Miller, Jr.
Victor D. Crist	Sandra L. Murman
Ken Hagan	Stacy White
Al Higginbotham	



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Wetlands Management	Scott Emery, Ph.D.

DRAFT

PERMITTEE:

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

PERMIT/CERTIFICATION

Permit No: 0571408-007-AC
County: Hillsborough
Expiration Date: April 30, 2017
Project: New Afterburner for the Wax Burn-Off Oven No. 1

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 the construction of one new afterburner at a metal casting product facility. The facility has six wax burn-off ovens all of which vent to an afterburner. Currently, two of the 1.0 MMBtu/hr, Pacific Kiln wax burn-off ovens, Oven Nos. 1 and 2, vent to one 0.75 MMBtu/hr afterburner. The new 1.0 MMBtu/hr afterburner will control emissions from the Casting Molds Oven No. 1, which is a natural gas fired, 1.0 MMBtu/hr, Pacific Kiln wax burn-off oven. Oven No. 2 will continue to venting to the existing 0.75 MMBtu/hr afterburner.

The metal casting product process begins with wax injection molding. Casting molds are injected with wax and stored inside the building to allow for cooling. Once cooled, the molds are dipped into a tank containing a VOC based solvent to clean the mold. The molds are then covered with sand or stucco using an automated system to create a ceramic covering over the wax mold.

Once the ceramic covering has dried, the molds are put into one of two electric powered steam autoclaves which use high temperatures to melt the wax out of the mold. The autoclaves are exempt from permitting because the wax is not volatilized, therefore, there are no emissions associated with the autoclaves. To burn off any residual wax which may remain inside of the mold, the molds are placed in one of four identical, natural gas fired, 1.0 MMBtu/hr Pacific Kiln wax burn-off ovens. Oven Nos. 3 and 4 each have their own afterburners rated at 1.0 MMBtu/hr each.

The molds are placed in one of four pre-heat ovens and then into one of eight vacuum furnaces where metal nogs are melted down and the molds are filled with molten metal. Once cast, the molds are moved to an adjacent area where they are left for several days to cool. The facility uses natural gas for fueling the wax burn-off ovens and the pre-heat ovens.

An agency with values of environmental stewardship, fairness, and cooperation

Roger P. Stewart Center

3629 Queen Palm Drive, Tampa, FL 33619 - (813) 627-2600 - www.epchc.org

An Affirmative Action / Equal Opportunity Employer

Once the mold has cooled, the parts are separated from the mold and grit blasted; placed in a heated tank containing sodium hydroxide to leach the core(s); and/or buffed, as needed, to ensure that all of the ceramic and the core(s) is removed from the metal part. The metal parts are then placed into one of six vacuum heat treat ovens, which use negative pressure and heat to harden the part. The finished parts are stored onsite until ready to be shipped to customers.

Emission Unit No. 002 - Wax Burn-Off Ovens

Emission Point No.	Process	Manufacturer	Model No.	Control Device
EP 001	Casting Molds	Pacific Kiln	PBF-CB-727252NG	1.0 MMBtu/hr afterburner
EP 002	Casting Molds	Pacific Kiln	PBF-CB-727252NG	0.75 MMBtu/hr afterburner
EP 003	Casting Molds	Pacific Kiln	FFDWS-9487236D8	1.0 MMBtu/hr afterburner
EP 004	Casting Molds	Pacific Kiln	FFDWS-6487236D8	1.0 MMBtu/hr afterburner
EP 005	Core Making	Harrop	GF-SG-38/36/72-3000-2600	0.8 MMBtu/hr afterburner
EP 006	Core Making	Harrop	GF-SG-48/48/96-3000-2450	0.8 MMBtu/hr afterburner

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.: 0571408-002-AC and 0571408-003-AC

PERMITTEE:
Chromalloy Castings Tampa Corporation

PERMIT/CERTIFICATION NO.: 0571408-007-AC
PROJECT: New Afterburner for the Wax Burn-Off
Oven No. 1

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SPECIFIC CONDITIONS:

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. The permittee shall not cause, permit, or allow any visible emissions (5% opacity) from any afterburner or activity associated with Emission Unit No. 002. [Rule 62-296.712(2), F.A.C.]
6. The hours of operation of the facility are not limited. [Rule 62-4.070(3), F.A.C. and Permit Nos. 0571408-002-AC and 0571408-003-AC]
7. The maximum combined natural gas usage of the pre-heat ovens and the wax burn-off ovens shall not exceed 238 million cubic feet. [Rule 62-4.070(3), F.A.C. and Permit Nos. 0571408-002-AC and 0571408-003-AC]
8. In order to ensure compliance with Specific Condition Nos. 5 and 7, the following restrictions and limitations shall apply to the Casting Molds Wax Burn-Off Ovens with Afterburners (Emission Unit No. 002) for any twelve consecutive month period: [Rule 62-4.070(3), F.A.C. and Permit Nos. 0571408-002-AC and 0571408-003-AC]
 - A) All casting molds shall be placed in an autoclave to remove the wax prior to being placed in the burn-off ovens to remove any residual wax.
 - B) The throughput of each Pacific Kiln oven shall not exceed 1,600 lb/hour of molds.
 - C) The number of molds placed in each oven per load shall not exceed 18 molds.
 - D) The wax content of each mold shall not exceed 3% of the mold weight.
 - E) The minimum destruction efficiency of each afterburner shall be 99%.
 - F) The following practices shall be followed during the operation of each casting molds wax burn-off oven:
 - i. Preheat the afterburner chamber until it reaches a minimum temperature of 1,425°F prior to the initial charge upon startup.
 - ii. Maintain the afterburner temperature at a minimum of 1,425°F during operation, including during the charging operation.

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SPECIFIC CONDITIONS:

- iii. Observe the stack, furnace doors/openings, and seals for visible emissions at least once per shift. Make note of any problems and correct promptly.
- iv. Record the temperature of each afterburner at least once per shift.
- v. Turn on the afterburner during ash removal or cleaning of the burn-off chamber.

9. Test the new 1.0 MMBtu/hr afterburner and the associated wax burn-off oven for visible emissions within 30 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 unit 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(5)(b) and (10), F.A.C. and Ch. 1-3.52 of the Rules of the EPCHC]

10. Compliance with the emission limitations of Specific Condition No. 5 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. [Rules 62-297.310(5)(b) and (7) and 62-4.070(3), F.A.C.]

11. Testing of emissions shall be conducted with the source operating at capacity. Capacity is defined as 90-100% of processing 18 molds per load per oven for the wax burn-off ovens associated with the casting mold process. If it is impracticable to test at the testing capacity, an emissions unit may be tested at less than the testing capacity. If an emissions unit is tested at less than the testing capacity, another emissions test shall be conducted and completed no later than 60 days after the emissions unit operation exceeds 110% of the capacity at which its most recent emissions test was conducted. Failure to submit the input rates and actual operating conditions, including the number of molds or pounds of wax processed during the test and the afterburner temperature (°F), may invalidate the test. [Rules 62-4.070(3) and 62-297.310(3), F.A.C.]

12. At least 15 days prior to the date on which each required emissions test is to begin, the owner or operator shall notify the EPCHC, unless shorter notice is agreed to by the EPCHC. The notification shall include the date, time, place of each such test, Facility ID Number, Emission Unit ID Number(s) and description(s), Emission Point Number(s) and description(s), test method(s), pollutant(s) to be tested, along with the name and telephone number of the person who will be responsible for conducting such test(s) for the owner or operator. If a scheduled emissions test needs to be re-scheduled, the owner or operator shall submit to the appropriate air compliance program a revised notification at least seven days prior to the re-scheduled emissions test date or arrange a re-scheduled test date with the appropriate air compliance program by mutual agreement.. [Rule 62-297.310(9), F.A.C.]

13. In order to demonstrate compliance with Specific Condition Nos. 5, 7, and 8 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 not limited to, the following: [Rules 62-4.070(3) and 62-4.160(14), F.A.C.]

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- A) Month, Year
- B) Number of molds per load processed through each wax burn-off oven used in the casting molds process
- C) Combined natural gas usage of the wax burn-off ovens and the pre-heat ovens
- D) Rolling twelve month totals of B) and C) above
- E) Record the observations specified in 8.F)iii. and iv.

14. The afterburners associated with the wax burn-off ovens shall be maintained in accordance with the manufacturer's specifications in order to provide reasonable assurance that the control devices will perform adequately the function for which they are intended. [Rules 62-296.700(6) and 62-4.070(3), F.A.C.]

15. 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 are not limited to, the following: [Rule 62-296.320(4)(c), F.A.C. and Permit No. 0571408-002-AC]

- A) Removal of particulate matter from paved areas, buildings, and work areas under the control of the owner/operator.
- B) Clean accidental spills promptly.
- C) Exercise good housekeeping at all times.
- D) Carefully place ash or residue from the burn-off oven chamber in a leak tight container and dispose of properly. Moisten ash/residue, if necessary.

16. 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.]

17. 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.

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B) Installation or addition of any equipment which is a source of air pollution.

18. 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.]

19. 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.]

20. In order to provide reasonable assurance that the afterburners associated with the wax burn-off ovens (EU No. 002) 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 afterburners. [Rules 62-296.700(6) and 62-4.070(3), F.A.C.]

21. 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 an Operation and Maintenance (O & M) Plan for the afterburners (EU No. 002), the scrubber (EU No. 005), and the baghouse (EU No. 010), or at least 90 days prior to the expiration date of this permit, whichever occurs first. [Rules 62-296.700(6), 62-4.050(2), and 62-4.090, F.A.C.]

ENVIRONMENTAL PROTECTION COMMISSION
OF HILLSBOROUGH COUNTY

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Janet L. Dougherty
Executive Director