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Mr. Greg Andersen
President
Harsco Corporation dba Harsco Minerals
5000 Ritter Road, Suite 205
Mechanicsburg, PA 17055

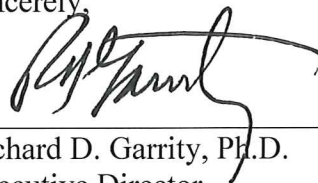
RE: 0570224-009-AC
Minor Air Construction Permit
New Slag Dryer Dust Collector

Dear Mr. Andersen:

On May 18, 2015, you submitted an application for an air construction permit to authorize the installation of a new dust collector to control particulate matter emissions from the slag dryer at your slag processing facility and increase the natural gas usage limit of the slag dryer. This facility is located in Hillsborough County at 5950 Old US 41A Highway, 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,



Richard D. Garrity, Ph.D.
Executive Director

Enclosures

RDG/LAW/law

COMMISSION

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WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

In the Matter of an

Application for Air Permit by:

Harsco Corporation dba Harsco Minerals
5000 Ritter Road, Suite 205
Mechanicsburg, PA 17055

Project No. 0570224-009-AC
Minor Air Construction Permit
Hillsborough County, Florida

Authorized Representative:

Jeffrey M. Ames

New Slag Dryer Dust Collector

Facility Location: Harsco Corporation dba Harsco Minerals operates the existing Tampa Facility, which is located in Hillsborough County at 5950 Old US 41A Highway, Tampa, FL, 33619.

Project: This project authorizes the replacement of the scrubber with a 23,579 DSCFM dust collector to control particulate matter emissions from the slag dryer at a slag processing facility and increases the natural gas usage limit of the slag dryer.

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

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

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

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

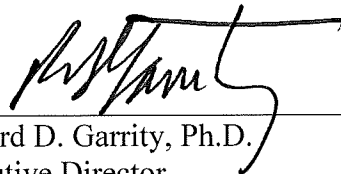
WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

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.



Richard D. Garrity, Ph.D.
Executive Director

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

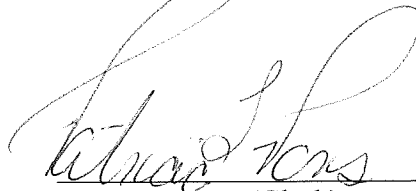
CERTIFICATE OF SERVICE

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.

Greg Andersen – Harsco Corporation dba Harsco Minerals
Florida Department of Environmental Protection, Southwest District (posting online)
Lynn Robinson, P.E. – Southern Environmental Sciences, 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)


(Date)

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT
ENVIRONMENTAL PROTECTION COMMISSION
OF HILLSBOROUGH COUNTY
Draft Minor Air Construction Permit
Project No. 05700224-09-AC
Harsco Corporation dba Harsco Minerals
Hillsborough County, Florida

Applicant: The applicant for this project is Harsco Corporation dba Harsco Minerals. The applicant's authorized representative and mailing address is: Greg Andersen, 5000 Ritter Road, Suite 205, Mechanicsburg, PA 17055.

Facility Location: Harsco Corp. operates the existing Tampa Facility, which is located in Hillsborough County at 5950 Old US 41A Highway, Tampa, FL, 33619.

Project: This project authorizes the replacement of the scrubber with a 23,579 DSCFM dust collector to control particulate matter emissions from the slag dryer at a slag processing facility and increases the natural gas usage limit of the slag dryer.

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.

TECHNICAL EVALUATION
AND
PRELIMINARY DETERMINATION
FOR

Harsco Corporation dba Harsco Minerals

Hillsborough County

Air Construction Permit

Application Number

0570224-009-AC

Environmental Protection Commission of

Hillsborough County

Tampa, FL

June 12, 2015

I. Project Description

A. Applicant:

Greg Andersen
President
Harsco Corporation dba Harsco Minerals
5000 Ritter Road, Suite 205
Mechanicsburg, PA 17055

B. Engineer:

Lynn Robinson, P.E.
P.E. No.: 20786
Southern Environmental Sciences, Inc.
1204 North Wheeler St.
Plant City, FL 33563

C. Project and Location:

This permit authorizes the replacement of the scrubber with a new 23,579 DSCFM, Schenck Process, LLC, MCF PowerSaver, Model No. 144MCF416, dust collector to control particulate matter emissions from the slag dryer. In addition, this permit authorizes an increase in the natural gas usage limit of the slag dryer from 150 million cubic feet per year to 153 million cubic feet/year.

The project has been assigned NEDS Source Classification Code No. 3-99-999-99 (Industrial Processes, Miscellaneous Manufacturing Industries, Miscellaneous Industrial Processes, Other Not Classified). The facility has been assigned SIC Industry No. 32 – Stone, Clay, Glass, and Concrete Products. The project will take place at 5950 Old US 41A Highway, Tampa, FL 33619, UTM Coordinates 17- 362.20 East 3085.50 North.

D. Process and Controls:

This permit authorizes the installation of a new dust collector to control particulate matter emissions from the slag dryer at a slag processing facility. In addition, this permit authorizes an increase in the natural gas usage of the slag dryer from 150 million cubic feet per year to 153 million cubic feet/year. The slag processing operation begins by receiving slag by dump truck or railcar which unload the slag into open storage piles. When the slag is ready to be dried, front-end loaders transfer the slag from the piles to a feed hopper which gravity feeds the slag to a partially enclosed conveyer belt.

The conveyor belt transfers the slag to an enclosed screener. Oversized slag is transferred to a roll crusher and then to a storage pile. This slag is returned to the process to be screened again. Properly sized slag is gravity fed to a second enclosed conveyor belt which transfers the slag into a 37.5 MMBtu/hr Roberts and Schaffer Resources, Inc. fluid bed dryer to remove the moisture from the slag. The dryer is fired exclusively on natural gas. Particulate matter emissions from the dryer will be controlled by a 23,579 DSCFM, Schenck Process, LLC, MCF PowerSaver, Model No. 144MCF416, Dust Collector. This dust collector will replace the

existing 21,530 DSCFM, Multi-Element, BACT, Model ME27 wet scrubber, which currently controls emissions from the slag dryer.

From the dryer, the dried slag is conveyed to a fully enclosed bucket elevator which transfers the dried slag to the top of the slag handling building and through a crusher. The material is sized by screening equipment and transferred using a bucket elevator and a series of conveyor belts to seventeen storage silos. When needed, the slag is conveyed to either two truck loading stations, a railcar loading station, or a bagging station. The particulate matter emissions generated from 1) the slag handling building; 2) the conveying, crushing, screening, and storage of the dried slag; and 3) the bagging, railcar loading, and truck loading operations are controlled by one 80,000 DSCFM, Clemco Industries, Inc., Model CDF-80, baghouse.

The potential particulate matter emissions from the slag dryer dust collector are limited to 0.03 gr/dscf and 12.6 tons/year based on 4,160 hours of operation per year. In addition, the facility-wide potential particulate matter emissions are limited to 83.3 tons/year. The potential CO, NO_x, and VOC emissions from the slag dryer are based on emission from AP 42, 5th Edition, Ch. 1.4 – Natural Gas Combustion. The potential SO₂ emissions are calculated based on a mass balance, as provided by the applicant, assuming a maximum (worst case) of 10 grains of sulfur per 100 cubic feet of natural gas.

The facility is subject to Rule 62-296.711, F.A.C. - Reasonably Available Control Technology (RACT) Particulate Matter, and Chapter 1-3.52.2 of the Rules of the EPCHC, which limits visible emissions to 5% opacity. The facility is not subject to 40 CFR 60 Subpart UUU—Standards of Performance for Calciners and Dryers in Mineral Industries pursuant to 40 CFR 60.731 because it does not meet the definition of a mineral processing plant and because, according to the facility, the dryer was constructed prior to April 23, 1986.

E. Application Information:

Received on: May 18, 2015
Information Requested: NA
Application Complete: May 18, 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 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 62-296.401, 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., since there is an applicable source specific category in this rule, specifically Rule 62-296.711, F.A.C. – Materials Handling, Sizing, Screening, Crushing and Grinding 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 no 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

EU No. 001 – Slag Dryer

Pollutant	Potential Emissions (tons/yr)	Actual Emissions (tons/yr)	Allowable Emissions
PM	12.6	0.9	0.03 gr/dscf and 5% opacity
CO	6.4	1.0	NA
NO _x	7.7	0.5	NA
VOC	0.4	0.025	NA
SO ₂	1.1	0.003	NA

- The Actual Emissions are based on the average of 2012 and 2013 AOR data.
- The Potential PM Emissions are based on a grain loading standard of 0.03gr/dscf and the dust collector airflow rate of 23,579 dscfm.
- The potential CO, NO_x, and VOC, emissions are based on emission factors from AP 42, 5th Edition, Ch. 1.4 – Natural Gas Combustion.
- The potential SO₂ emissions are based on a mass balance, as provided by the applicant, assuming a maximum (worst case) of 10 grains of sulfur per 100 cubic feet of natural gas.
- The facility-wide potential PM emissions are limited to 83.3 tons/year.

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

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 for construction of the aforementioned air pollution source in accordance with the draft permit and its conditions as stipulated (see attached).

COMMISSION

Kevin Beckner
Victor D. Crist
Ken Hagan
Al Higginbotham

Lesley "Les" Miller, Jr.
Sandra L. Murman
Stacy White



EXECUTIVE DIRECTOR
Richard D. Garrity, Ph.D.

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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

Greg Andersen
President
Harsco Corporation dba Harsco Minerals
5000 Ritter Road, Suite 205
Mechanicsburg, PA 17055

Dear Mr. Andersen:

Enclosed is Permit Number 00570224-009-AC to authorize the installation of a 23,579 DSCFM, Schenck Process, LLC, MCF PowerSaver, Model No. 144MCF416, Dust Collector to control particulate matter emissions from the slag dryer. This permit also increases the natural gas usage limit of the slag dryer, 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

Richard D. Garrity, Ph.D.
Executive Director

RDG/LAW/law

Harsco Corporation dba Harsco Minerals
Mechanicsburg, PA 17055

Page 2 of 2

cc: Florida Department of Environmental Protection, Southwest District (posting online)
Lynn Robinson, P.E. – Southern Environmental Sciences, Inc. (via e-mail)

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
Victor D. Crist
Ken Hagan
Al Higginbotham

Lesley "Les" Miller, Jr.
Sandra L. Murman
Stacy White



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

DRAFT

PERMITTEE:

Harsco Corporation dba Harsco Minerals
5950 Old US Highway 41A
Tampa, FL 33619

PERMIT/CERTIFICATION

Permit No.: 0570224-009-AC
Expiration Date: November 1, 2016
County: Hillsborough
Project: New Slag Dryer Dust Collector

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 hereof and specifically described as follows:

This permit authorizes the replacement of the scrubber with a dust collector to control particulate matter emissions from the slag dryer at a slag processing facility. This permit also increases the natural gas usage limit of the slag dryer. The slag processing operation begins by receiving slag by dump truck or railcar which unload the slag into open storage piles. When the slag is ready to be dried, front-end loaders transfer the slag from the piles to a feed hopper which gravity feeds the slag to a partially enclosed conveyor belt.

The conveyor belt transfers the slag to an enclosed screener. Oversized slag is transferred to a roll crusher and then to a storage pile. This slag is returned to the process to be screened again. Properly sized slag is gravity fed to a second enclosed conveyor belt which transfers the slag into a 37.5 MMBtu/hr Roberts and Schaffer Resources, Inc. fluid bed dryer to remove the moisture from the slag. The dryer is fired exclusively on natural gas. Particulate matter emissions from the dryer will be controlled by a 23,579 DSCFM, Schenck Process, LLC, MCF PowerSaver, Model No. 144MCF416, Dust Collector. This dust collector will replace the existing 21,530 DSCFM, Multi-Element, BACT, Model ME27 wet scrubber, which currently controls emissions from the slag dryer.

From the dryer, the dried slag is conveyed to a fully enclosed bucket elevator which transfers the dried slag to the top of the slag handling building and through a crusher. The material is sized by screening equipment and transferred by bucket elevator and a series of conveyor belts to seventeen storage silos. When needed, the slag is conveyed to either two truck loading stations, a railcar loading station, or a bagging station. The particulate matter emissions generated from 1) the slag handling building; 2) the conveying, crushing, screening, and storage of the dried slag; and 3) the bagging, railcar loading, and truck loading operations are controlled by one 80,000 DSCFM, Clemco Industries, Inc., Model CDF-80, baghouse.

Location: 5950 Old US 41A Highway, Tampa, FL 33619

UTM: 17-362.2E 3085.5N NEDS NO: 0224

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

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Emission Unit No.: 001 - Slag Rotary Dryer

References Permit Nos.: 0570224-003-AC and 0570224-005-AC

Replaces Permit No.: NA

PERMITTEE:
Harsco Corporation dba Harsco Minerals

PERMIT/CERTIFICATION Nos.: 0570224-009-AC
PROJECT: New Slag Dryer Dust Collector

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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 use of property, facilities, equipment, processes, products, or compounds, or the commission of paint overspraying or any other act, that causes or materially contributes to a public nuisance is prohibited, pursuant to the Hillsborough County Environmental Protection Act, Section 16, Chapter 84-446, Laws of Florida, as Amended.
5. 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.]
6. As requested by the permittee, in order to limit the potential to emit, the following limitations shall apply per any twelve consecutive month period: [Rules 62-4.070(3), 62-296.711(2)(b)]
 - A) The maximum allowable and potential particulate matter emissions from EU No. 001 shall not exceed 0.03 gr/dscf and 12.6 tons/year.
 - B) The Hazardous Air Pollutants (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 in any 12 consecutive month period.
7. The permittee shall not cause, permit, or allow any visible emissions (five percent opacity) from any activity associated with EU No. 001. [Rules 62-296.711(2)(a) and 62-4.070(3), F.A.C., Chapter 1-3.52.2 of the Rules of the EPCHC]
8. The hours of operation of the slag dryer shall not exceed 4,160 hours per 12 consecutive month period. [Rule 62-4.070(3), F.A.C.]
9. In order to ensure compliance with Specific Condition Nos. 6 and 7, the following restrictions and limitations shall apply per any twelve consecutive month period: [Rule 62-4.070(3), F.A.C. and Permit No. 0570224-003-AC]
 - A) The maximum heat input rate of the dryer shall not exceed 37.5 MMBtu/hour.
 - B) The maximum amount of natural gas used in the dryer shall not exceed 153 million cubic feet.
 - C) The maximum facility wide throughput of slag shall not exceed 300,000 tons per twelve consecutive month period.
 - D) The maximum process rate for the dryer shall not exceed 75 tons per hour.
 - E) The slag dryer dust collector shall be in operation while the slag dryer is in operation.

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10. Test the exhaust of the slag dryer dust collector (EU 001) for particulate matter emissions and visible emissions while handling slag within 60 days of the start-up of the new dust collector. Emissions shall be read from the point of highest opacity. If the results of the test or any subsequent test are within 20 percent of the emission standard of 0.03 gr/dscf, the permittee shall test the exhaust of the slag dryer dust collector (EU 001) for particulate matter every two and a half years from the date of the previous test. Submit two copies of the test data to the Air Management Division of the Environmental Protection Commission of Hillsborough County within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Rule 62-297.310, F.A.C. [Permit No. 0570224-005-AC and Rule 62-297.310, F.A.C.]

11. Testing of emissions shall be conducted with the source operating at capacity. Capacity for the Slag Dryer (EU No. 001) is defined as 90-100% of handling 75 tons of slag per hour. Failure to submit the actual operating conditions, including the amount of material processed and the dust collector pressure drop may invalidate the test. [Rules 62-4.070(3) and 62-297.310(3)(b), F.A.C., and Permit No. 0570224-003-AC]

12. If it is impracticable to test at capacity, then the sources may be tested at less than capacity; in this case subsequent source operation is limited to 110% of the test load until a new test is conducted. 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. [Rules 62-4.070(3) and 62-297.310(2)(b), F.A.C.]

13. Compliance with the emission limitations of Specific Conditions Nos. 6 and 7 shall be determined using EPA Methods 1, 2, 4, 5, and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. The EPA Method 9 test for the slag dryer dust collector shall be a minimum of 30 minutes. 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, F.A.C. and Permit No. 0570224-003-AC]

14. At least 15 days prior to the date on which each required emissions test is to begin, the owner or operator shall notify the EPC, unless shorter notice is agreed to by the EPC. 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 EPC a revised notification at least seven days prior to the re-scheduled emissions test date or arrange a re-scheduled test date with the EPC by mutual agreement. [Rule 62-297.310(9), F.A.C.]

15. In order to demonstrate compliance with the limitations in Specific Condition Nos. 6, 8, and 9, the permittee shall maintain a monthly recordkeeping system. The records shall be retained for the most recent three year period and made available to the Environmental Protection Commission of Hillsborough County, state or federal agency upon request. The records shall include, but not limited to, the following: [Rule 62-

PERMITTEE:
Harsco Corporation dba Harsco Minerals

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4.070(3), F.A.C.]

- A) Month and Year
- B) Amount of slag processed through the dryer (tons)
- C) Hours of operation of Emission Unit No. 001
- D) Amount of natural gas used in the dryer (ft³)
- E) Rolling twelve month totals of B) through D) above

16. Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the EPC for longer duration. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited. In case of excess emissions resulting from malfunctions, each owner or operator shall notify the Environmental Protection Commission of Hillsborough County in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rules 62-210.700(1),(4) and (6), F.A.C.]

17. 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) Wetting of the fine particulates collected by the dust collector. As this material is stockpiled in the yard, water or other dust suppressant controls should be applied to keep the product from becoming airborne. Additional measures should be taken as needed to control emissions during loading and unloading of the pile.
- B) Paving and maintenance of roads, parking areas, and yards.
- C) Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles, and similar activities.
- D) Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
- E) Landscaping or planting of vegetation.
- F) Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.

18. 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-

PERMITTEE:
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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. [Rule 62-297.310(8)(c), F.A.C.]

19. No owner or operator shall circumvent the provisions of an applicable emission limitation by increasing the volume of gas in any exhaust or group of exhausts for the purpose of reducing the stack gas concentration. This includes allowing dilution air to enter the system through leaks, open vents, or similar means. In addition, no person shall circumvent any air pollution control device, or allow the emission of air pollutants without the applicable air pollution control device operating properly. [Rules 62-210.650 and 62.296.700(5), F.A.C. and Permit No. 0570224-005-AC]

20. 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.

21. 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(2), F.A.C.]

22. If the permittee wishes to transfer this permit to another owner, an "Application for Transfer of Air 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.]

23. 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 initial compliance test or at least 90 days prior to the expiration date of this permit, whichever occurs first. The permit application shall include an Operation and Maintenance Plan (O and M Plan) for the slag dryer dust collector. [Rules 62-4.050(2) and 62-4.090, F.A.C.] [Rule 62-4.090, F.A.C.]

ENVIRONMENTAL PROTECTION COMMISSION
OF HILLSBOROUGH COUNTY

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Richard D. Garrity, Ph.D.
Executive Director

ATTACHMENT - GENERAL CONDITIONS

(1) The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

(2) This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

(3) As provided in subsections 403.987(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in this permit.

(4) This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

(5) This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

(6) The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

(7) The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

- (a) Have access to and copy any records that must be kept under conditions of the permit;
- (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules. Reasonable time may depend on the nature of the concern being investigated.

ATTACHMENT - GENERAL CONDITIONS

(8) If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- (a) A description of and cause of noncompliance; and
- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

(9) In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

(10) The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.

(11) This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

(12) This permit or a copy thereof shall be kept at the work site of the permitted activity.

(13) This permit also constitutes:

- () Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- () Compliance with New Source Performance Standards

(14) The permittee shall comply with the following:

- (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring

ATTACHMENT - GENERAL CONDITIONS

instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

(c) Records of monitoring information shall include:

1. The date, exact place, and time of sampling or measurements;
2. The person responsible for performing the sampling or measurements;
3. The dates analyses were performed;
4. The person responsible for performing the analyses;
5. The analytical techniques or methods used;
6. The results of such analyses.

(15) When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.