Gulf Marine Repair/Hendry Corporations
Tampa, Florida

Facility ID No. 0570442
Hillsborough County

PROPOSED Title V Air Operation Permit Revision

Permit No. 0570442-016-AV
(Revision of Title V Air Operation Permit No. 0570442-013-AV)

Permitting and Compliance Authority:

Environmental Protection Commission
of Hillsborough County
3629 Queen Palm Drive
Tampa, FL 33619
Telephone: (813) 627-2600
Fax: (813) 627-2660

Title V Air Operation Permit Revision

Permit No. 0570442-016-AV

Table of Contents

Section **Page Number**

I. Facility Information.
A. Facility Description. 2
B. Summary of Emissions Units. 4
C. Applicable Regulations. 4

II. Facility-wide Conditions. 5

III. Emissions Units and Conditions.
A. 001-Exterior Coating and 002-Interior Coating 9
B. 003-Grit Blasting including Diesel Compressors and 004-Grit Silos and Blasting Pots 19
C. 008-Blasting/Coating Booth 24

IV. Appendices. 35
Appendix A, Glossary.
Appendix D-1, 40 CFR Subpart II Definitions
Appendix F-1, Flow Diagram of Compliance Procedures
Appendix F-2, Example Monograph for Estimating the Maximum Allowable Thinning Ratio
Appendix I, List of Insignificant Emissions Units and/or Activities
Appendix NESHAP, Subpart A – General Provisions Applicability to Subpart II
Appendix NESHAP, Subpart II
Appendix OM-1: Operation and Maintenance (O&M) Plan
Appendix RR, Facility-wide Reporting Requirements
Appendix SS-1, Stack Sampling Facilities
Appendix TR, Facility-wide Testing Requirements
Appendix TV, Title V General Conditions
EPC Shipyard BMP

Referenced Attachments. ..... At End
Table H, Permit History.
Table 1, Summary of Air Pollutant Standards and Terms.
Table 2, Compliance Requirements.

PERMITTEE:
Gulf Marine Repair/Hendry Corporations
1800 Grant Street
Tampa, FL 33605

PROPOSED Permit No. 0570442-016-AV
Tampa, Florida
Facility Id No. 0570442
Title V Air Operation Permit Revision

The purpose of this permit is to revise the Title V air operation permit for the above referenced facility and to incorporate the terms and conditions of Air Construction Permit No. 0570442-015-AC, which was issued concurrently with the renewal permit. The ship building and repair facility is located in Hillsborough County at 1800 Grant Street, Tampa, Florida. UTM Coordinates are: Zone 17, 358.17 km East and 3091.90 km North; and, Latitude: 27° 56' 46" North and Longitude: 82° 26' 30" West.

The Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

Effective Date: DATE of FINAL PERMIT, 20xx
Renewal Application Due Date: October 20, 2014
Expiration Date: June 2, 2015

(PROPOSED)

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Richard D. Garrity
Executive Director

RDG/JDS/jds

Subsection A. Facility Description.

This permit revision is being issued for the purpose of revising the Title V Air Operating Permit and to incorporate the terms and conditions of Air Construction Permit No. 0570442-015-AC, which was issued concurrently with the revision permit. Permit No. 0570442-015-AC was issued to identify changes to the existing Title V permit relating to testing requirements, recordkeeping requirements, and the use of additional types of slag for blasting. Both Gulf Marine Repair (GMR) and Hendry Corporation conduct ship building and repair operations, which include blasting and painting of ships and miscellaneous metal parts. Both are located next to each other at the Port of Tampa. GMR operates at Berths 250, 251, 252 and 253, and at the Hooker's Point Power Plant area. Hendry operates at the South Slip of Berth 250.

Gulf Marine Repair Ship Building and Repair Operations

The activities at GMR include the blasting and coating of marine vessels. Both external and internal blasting of ships occurs at the facility. The abrasive material used for blasting is coal slag, steel shot, and metallic slag (as recognized individually by the permitting authority). The slag is stored on-site in four 40-ton grit storage silos or stored at the site in prepackaged bags from the manufacturer. The silos are pneumatically loaded at a rate of 11.5 tons per hour. The blasting equipment includes five blasting pots with a capacity of 40 tons. Compressed air for propelling the abrasive grit is provided by up to eight diesel compressors. A maximum of 16 blasting nozzles with ½-inch diameters and maximum delivery pressures of 100 psig may be used at any given time.

GMR is also authorized to operate at the property formerly identified as TECO's Hooker's Point Power Plant. The property is located directly south of the main yard and will support up to 3 additional dry docks. This area will also include up to an additional 8 diesel compressors, 4 grit silos, 5 blasting pots and 16 internal and external blasting nozzles. The additional equipment will reside at the Hooker's Point site and will be operated exclusively out of this location. The increased external blasting nozzle limit allows the facility to use up to 32 nozzles at one time; however, no more than 16 nozzles can be used on any single ship at one time. Also located at the expansion area will be an enclosed blasting/coating containment area, a spent grit storage area, several storage tanks and additional marine repair equipment.

Particulate emissions from storage silo loading are limited by passing the displaced air through fabric filters (or baghouses). Compressor emissions are controlled by the use of diesel fuel only and a limitation on the amount of diesel fuel used in any 12 month period. Particulate emissions from blasting are minimized with a limit on the amount of abrasive grit used in any 12 month period, the use of tarps/barriers that surround the blasting area, and other reasonable precautions. When blasting an internal section of a ship, the displaced air is passed through a filter device or a tarp enclosure that covers the exhaust points from the internal blasting prior to exhausting to the atmosphere.

A partially-enclosed blasting/coating booth is used to help prepare miscellaneous metal parts prior to being installed on a ship. The booth is closed on all sides except the east side, which has a curtain/tarp that is capable of being open and closed as needed to move metal parts in or out of the booth. The curtain/tarp is required to remain closed during any blasting or coating activities to control airborne emissions. Metal parts are blasted within the booth using diesel compressors and blasting nozzles. Particulate matter emissions from the blasting operation are controlled by the building enclosure and vented to a 40,000 acfm Industrial Vacuum Equipment Corp. Model 80-HF-4TSE baghouse on the west side of the booth. The booth also has a vacuum system (Industrial Vacuum Equipment Corp. Model Hurricane 500EM Quiet Cube) with a hose to collect spent grit from the booth. The 2,350 acfm vacuum system is also located on the west side of the booth and collects the spent grit in two collection pots. Its operation has been determined to be insignificant based on the expected sporadic use of the system and the low airflow fan rate. During coating operations, spray nozzles are used to apply coatings to the metal parts and the baghouse can remain off but the curtain/tarp must remain closed to prevent overspray.

A small parts blasting/coating area is also present at the site and comprised of tarps hung on raised wires to contain particulate matter emissions from blasting and painting of miscellaneous parts. The small parts blasting/coating area may be used to process parts that cannot be accommodated in the blasting/coating booth. A separate partially-enclosed spent grit storage building is also located on the site. A permanent coating building is also present for the painting of miscellaneous metal parts. The coating building is located over an impervious surface, and is open on two sides with tarps/curtains for control of overspray from those openings during coating operations.

After blasting, the surfaces are sprayed with a series of marine coatings which may contain one or more volatile organic compounds (VOCs) and/or hazardous air pollutants (HAPs). Coating activities covered include the painting of the main deck, the superstructure, the hull exterior, and the ship interior. VOC and HAP emissions are controlled through various coating content restrictions and limits on usage in any 12-month period.

Hendry Corporation's Ship Building and Repair

Hendry's operations consist of various grit blasting and coating operations associated with ship maintenance. The facility operates the ship maintenance activities through the use of a single submergible dry dock. Volatile organic compound emissions from the coatings are controlled through the use of low solvent coatings and application practices (e.g. airless, brush, roller, HVLP) and limitations on the usage of coatings. The facility uses airless spray guns along with corresponding pumps as part of the coating operation. Paint overspray is controlled by application practices and total enclosure using portable screens/tarps, which are required at all times when painting a ship.

Grit blasting activities involve the use of coal slag and metallic slag (as recognized individually by the permitting authority) to prepare metal surfaces for painting. The grit blasting system consists of the following:

1. Up to two storage silos for blasting grit, pneumatically loaded, equipped with a fabric sock filter. Normal loading rate is 11.5 tons/hour. Maximum loading pressure is 16 psia.
2. Up to two 24-ton capacity blasting pots.
3. A maximum of four grit blasting lines per pot, each with one .5" blasting nozzle operating at 100 psig. and capable of delivering 2,149 pounds/hour of grit each. A total of eight blasting lines may be in use simultaneously.
4. One diesel compressor fired on No. 2 fuel oil.

Particulate matter emissions from the grit blasting are controlled by application practices and total enclosure using portable screens/tarps, which are required at all times when blasting a ship. When blasting an internal section of a ship, the displaced air is passed through a filter device or a tarp enclosure that covers the exhaust points from the internal blasting prior to exhausting to the atmosphere. A blasting/coating containment area is also present for the blasting and painting of miscellaneous parts.

Several tanks (diesel, propane, oxygen, etc.) are located on the site for various applications but are considered insignificant due to their low level of emissions.

Combined GMR/Hendry Corporations

The combined facility, GMR/Hendry Corporation, is a major source of HAPs and is subject to 40 CFR 63, Subpart II - National Emission Standards for Shipbuilding and Ship Repair (Surface Coating). The combined facility is not subject to 40 CFR 63, Subpart MMMM, for the surface coating of miscellaneous metal parts and products since the facility is already subject to the Subpart II pursuant to 40 CFR 63.3881(c)(12).

In addition, the facility is subject to PM-RACT because the maximum hourly facility-wide PM PTE is greater than 5 lbs/hr and 15 TPY. Although silo loading is exempt from PM-RACT pursuant to Rule 62-296.700(2)(c), F.A.C., it is subject to the 5% opacity standard of Chapter 1-3.52, Paragraph 2, Rules of the EPC. The diesel compressor is subject to the 20% opacity standard of Rule 62-296.320, F.A.C. because there is no source specific category in Rule

62-296.700, F.A.C. The abrasive blasting of ship interiors and exteriors is **not** subject to PM-RACT, since it is often not reasonable to enclose and vent PM emissions to a control device. However, the abrasive blasting of miscellaneous metal parts in the blasting/coating booth and blasting containment area prior to attachment to the ship is subject to the 5% opacity standard of Rule 62-296.712(2), F.A.C. Furthermore, the facility is subject to VOC-RACT Rule 62-296.513, F.A.C., for the surface coating operation of ship interiors and miscellaneous parts, excluding the coating of the exterior of an assembled ship.

Subsection B. Summary of Emissions Units.

EU No.	Brief Description
Regulated Emissions Units	
001	Exterior Coating
002	Interior Coating
003	Grit Blasting including Diesel Compressors
004	Grit Silos and Blasting Pots
008	Blasting/Coating Booth

Subsection C. Applicable Regulations.

Based on the Title V air operation permit revision application received April 7, 2011, this facility is a major source of hazardous air pollutants (HAP). A summary of applicable regulations is shown in the following table.

Regulation	EU No(s).
40 CFR 63, Subpart A, NESHAP General Provisions	001, 002, 008
40 CFR 63, Subpart II	001, 002, 008
Rule 62-296.513, F.A.C.	001, 002, 008
Rule 62-296.712, F.A.C.	003, 004, 008

The following conditions apply facility-wide to all emission units and activities:

FW1. Appendices. The permittee shall comply with all documents identified in Section IV, Appendices, listed in the Table of Contents. Each document is an enforceable part of this permit unless otherwise indicated. [Rule 62-213.440, F.A.C.]

Emissions and Controls

FW2. Not federally Enforceable. Objectionable Odor Prohibited. No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rule 62-296.320(2) and 62-210.200(Definitions), F.A.C.; and EPCHC Rule 1-3.22]

FW3. General Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed-necessary and ordered by the Department or its delegated agent, the Environmental Protection Commission of Hillsborough County.

(A) Maintaining covers, lids, etc., on all containers when they are not being handled, tapped, etc.
(B) Where possible and practical, procuring/fabricating a tightly fitting cover for any open trough, basin, etc., of VOC so that it can be covered when not in use.
(C) Attending to all spills/waste as soon as practical but no later than one hour after the event.
(D) Using only airless spray applicators unless a request for use of another technology is submitted in writing and approved by the Environmental Protection Commissions of Hillsborough County.
(E) Using high solids coatings whenever they are available and whenever they meet customer specifications.
(F) Using tarps or barriers with at least 95% shade factor at all times when painting any vessel or part thereof. The tarps or barriers shall surround and extend above the painting area, with complete enclosure at all times to contain all paint overspray. Only the immediate area around the location of active painting is required to be enclosed, as long as all of the painting is contained.
(G) Enclosing, covering or filtering drains or openings in the dry dock during painting.

[Rule 62-296.320(1)(a), F.A.C., and Permit No. 0570442-007-AC]

FW4. General Visible Emissions. Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b)1, F.A.C.]

FW5. In order to limit the potential to emit (PTE), the following limitations and restrictions apply to Gulf Marine Repair/Hendry Corporations, as a combined facility:
[Rule 62-4.070(3), F.A.C.; and Air Construction Permit Nos. 0570442-010-AC and 0571312-001-AC]

A) The maximum volatile organic compound (VOC) emissions (coating operations and compressors for blasting) shall not exceed 242.4 tons per twelve consecutive month period;
B) The maximum particulate matter (PM) emissions from the grit blasting operations (including diesel compressor emissions) shall not exceed 83.4 tons per twelve consecutive month period;
C) Total HAP emissions (coating operations and compressors for blasting) shall not exceed 189.7 tons per any 12 consecutive month period.

FW6. Unconfined Particulate Matter. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials;

construction; alteration; demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

A) Using only coal slag, steel shot, or metallic slag for abrasive blasting material unless prior notification is provided to the Environmental Protection Commission of Hillsborough County (EPC) to use another material, including any new type of metallic slag. Ebony Grit (manufactured by Opta Minerals USA) has been approved by the EPC as a metallic slag that can be used as a blasting media at the facility.
B) Providing written notice to the EPC at least 7 days prior to scheduled use of any new blasting material (including any new type of metallic slag) not previously recognized for use at the facility.
C) Using no spent abrasive material, except for steel shot used within a closed blasting system.
D) Using wet blasting techniques if desired. In the event that wet blasting is used, the permittee shall obtain the appropriate water pollution permits in accordance with Rule 62-4.240, F.A.C., prior to commencing wet blasting.
E) Using tarps or barriers with at least 95% shade factor at all times when blasting any vessel or part thereof. The tarps or barriers shall surround and extend above the blasting surface, with complete enclosure at all times to contain the dust and limit the opacity to below 20% and to keep the dust from entering the waters of Tampa Bay. When wet blasting, the extent of the enclosure may be less.
F) Conducting all blasting from the top of the ship down and blasting with the nozzle directed downward in order to control airborne emissions except when blasting beneath the vessel or on a small part which makes it physically impractical.
G) Requiring that all blasting operators be trained on procedures which minimize airborne emissions of blasting materials. Records of training (when it was offered and who attended) shall be maintained and be made available for inspectors of the Environmental Protection Commission of Hillsborough County upon request.
H) Using only manual sweeping and vacuum systems to clean-up spent blasting materials. The permittee shall clean-up spent blasting materials and other waste prior to submerging the dry dock. No blowers are permitted.
I) Equipping all pneumatically loaded grit storage silos with a filtration device on the exhaust opening. The device must retain at least 90% of 25 micron or larger particulate matter.
J) Recycling or disposing of all solid waste in a permitted Class I or II landfill or other facility approved by the Environmental Protection Commission of Hillsborough County. Receipt of disposal shall be maintained on site for a period of two years and made available to inspectors upon request. [Rule 62-701, F.A.C.]
K) Enclosing, covering or filtering drains or openings in the dry dock during blasting.

[Rules 62-296.320(4)(c) and 62-213.410, F.A.C.; and Construction Permit No. 0570442-015-AC]

Annual Reports and Fees

See Appendix RR, Facility-wide Reporting Requirements for additional details.

FW7. Annual Operating Report. The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by April 1st of each year. [Rule 62-210.370(3), F.A.C.]

FW8. Annual Emissions Fee Form and Fee. The annual Title V emissions fees are due (postmarked) by March 1st of each year. The completed form and calculated fee shall be submitted to: Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070. The forms are available for download by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site: http://www.dep.state.fl.us/air/emission/tvfee.htm. [Rule 62-213.205, F.A.C.]

FW9. Annual Statement of Compliance. The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit within 60 days after the end of each calendar year during which the Title V permit was effective. [Rules 62-213.440(3)(a)2. & 3. and (3)(b), F.A.C.]

FW10. Prevention of Accidental Releases (Section 112(r) of CAA). If and when the facility becomes subject to 112(r), the permittee shall:

a. Submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: (703) 227-7650.
b. Submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.

[40 CFR 68]

Additional Conditions

FW11. 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 requirement or permit condition 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.]

FW12. **Not Enforceable:** Best Management Practices (BMP). Appendix EPC Shipyard BMP is a part of this permit to be used as a reference guideline for employing best management practices. The permittee should continue to pursue and implement best management practices in conjunction with this guideline. The content of the BMP itself is not an enforceable part of the permit. [Rule 62-296.320 and 62-4.070(3), F.A.C.]

FW13. 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. [Hillsborough County Environmental Protection Act, Section 16, Chapter 84-446, Laws of Florida, as Amended.]

FW14. The permittee shall notify the Air Compliance Section of the Environmental Protection Commission of Hillsborough County at least 15 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the contact person who will be responsible for coordinating an having such test conducted. [Rule 62-297.310(7)(a)9., F.A.C.]

FW15. 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, 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.

*Not applicable to routine maintenance, repair, or replacement of component parts of an air emissions unit.

FW16. 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.]

FW17. Any reports, data, notifications, certifications, and requests required to be sent to the Environmental Protection Commission of Hillsborough County shall be sent to:

Environmental Protection Commission of Hillsborough County
Air Management Division
3629 Queen Palm Drive
Tampa, FL 33619

FW18. Any reports, data, notifications, certifications and requests required to be sent to the United States Environmental Protection Agency Region 4 should be sent to:

United States Environmental Protection Agency
Region 4
Air, Pesticides and Toxics Management Division
Air and EPCRA Enforcement Branch
Air Enforcement Section
61 Forsyth Street
Atlanta, Georgia 30303-8960
Telephone: 404/562-9155; Fax: 404/562-9163

Subsection A. Emissions Unit 001 and 002

The specific conditions in this section apply to the following emissions unit(s):

EU No.	Brief Description
001	Exterior Coating
002	Interior Coating

Miscellaneous internal and external spraying of marine vessels and associated parts with a series of marine coatings which may contain one or more volatile organic compounds (VOCs) and/or hazardous air pollutants (HAPs). VOC and HAP emissions are controlled through various coating content restrictions and limits on usage in any 12-month period.

{Permitting note: Exterior and Interior/Miscellaneous Part Coating are regulated under 40 CFR 63, Subpart A - General Provisions and 40 CFR 63, Subpart II - National Emission Standards for Shipbuilding and Ship Repair (Surface Coating). Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit. The terms used in specific conditions based on 40 CFR 63 Subpart II are defined in the Clean Air Act (CAA).}

Essential Potential to Emit (PTE) Parameters

A.1. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

A.2. Facility-wide coating usage is limited to 65,000 gallons for coatings applied to ship exteriors, 40,500 gallons for coatings applied to ship interiors and miscellaneous metal parts, and 11,600 gallons of thinners and solvents for any 12 consecutive month period.
[Rule 62-212.300(1)(d), F.A.C. and Air Construction Permit Nos. 0570442-010-AC and 0571312-001-AC]

A.3. For any coating applied to the exterior of a completely assembled marine vessel, the volatile organic compound content of the coatings shall not exceed 3.5 pounds per gallon of coating, excluding water, delivered to the coating applicator on an annual average basis.
[Rule 62-4.070(3), F.A.C. and Air Construction Permit Nos. 0570442-010-AC and 0571312-001-AC]

[Permitting note: A completely assembled marine vessel is considered a structure that has integral components assembled, including the structural completion of the hull and deck assembly, with the capacity to float.]

A.4. For any coating applied to a metal surface, other than the exterior of a completely assembled marine vessel, the volatile organic compound content of the coatings shall not exceed 3.5 pounds per gallon of coating, excluding water, delivered to the coating applicator. This shall apply to all flat metal plates, miscellaneous metal parts, ship modules, and sections fabricated for the purpose of converting or extending an existing ship. Whenever possible, all miscellaneous metal parts to be coated separate from the dry docks shall be contained within the blasting/coating booth or the blasting/coating containment area during the coating application process.
[Rules 62-296.513(2)(a)2. & 3. and 62-296.513(1)(b)10., F.A.C.; and Construction Permit No. 0570442-014-AC]

[Permitting Note: Portions of a vessel which are removed for convenience and coated separately in the new blasting/coating booth or containment area are subject to the maximum VOC content of 3.5 lb/gal <u>as-applied</u> as dictated in Specific Condition No. A.4. Once a part has been permanently attached to a ship and has become a part of its completed structure, it can then be identified as an external part of the ship and subject to the 3.5 pounds per gallon limit <u>on an annual average</u> as stated in Specific Condition No. A.3]

A.5. The VOC content of any solvents or thinners used shall not exceed 8.0 lbs/gal on an annual average basis.
[Rule 62-4.070(3), F.A.C. and Air Construction Permit No. 0570442-014-AC]

A.6. In order to limit the potential to emit, the total volatile organic compound usage and emissions from the coating operations covered under this permit shall not exceed 231 tons per any 12 consecutive month period. Total HAP emissions shall not exceed 189.4 tons per any 12 consecutive month period.
[Rules 62-4.070(3) and 62-212.300(1)(d), F.A.C., and Air Construction Permit Nos. 0570442-010-AC and 0571312-001-AC]

A.7. All VOC emissions from solvent washings shall be considered in the usage and emission limitations of coatings subject to Specific Condition Nos. A.2., A.3., A.4., A.5., and A.6., unless the solvent is directed into containers that prevent evaporation into the atmosphere.
[Rule 62-296.513(2)(c), F.A.C.]

NESHAP, Subpart II, Requirements

A.8. No owner or operator of any existing or new affected source shall cause or allow the application of any coating to a ship with an as-applied VOHAP content exceeding the applicable limit given in Table 1 below, as determined by the procedures described in Specific Condition No. A.15. For the compliance procedures described in Specific Condition No. A.15, VOC shall be used as a surrogate for VOHAP, and the EPA Reference Method 24 shall be used as the definitive measure for determining compliance.
[40 CFR 63.783(a)]

A.9. Each owner or operator of a new or existing affected source shall ensure that:

A) All handling and transfer of VOHAP-containing materials to and from containers, tanks, vats, drums, and piping systems is conducted in a manner that minimizes spills.
B) All containers, tanks, vats, drums, and piping systems are free of cracks, holes, and other defects and remain closed unless materials are being added to or removed from them.

[40 CFR 63.783(b)]

A.10. Specific Condition Nos. A.8. and A.9. do not apply to coatings used in volumes of less than 200 liters (52.8 gallons) per year, provided the total volume of coating exempt under this paragraph does not exceed 1,000 liters per year (264 gallons per year) at any facility. Coatings exempt under this paragraph shall be clearly labeled as ‘‘low-usage exempt,’’ and the volume of each such coating applied shall be maintained in the facility’s records.
[40 CFR 63.781(b)]

A.11. Specific Condition Nos. A.8. and A.9. do not apply to coatings applied with hand-held, non-refillable, aerosol containers or to unsaturated polyester resin (i.e., fiberglass lay-up) coatings. Coatings applied to suitably prepared fiberglass surfaces for protective or decorative purposes are subject to Specific Condition Nos. A.8. and A.9.
[40 CFR 63.781(c)]

A.12. For each batch of coating that is received by an affected source, the owner or operator shall (see Appendix F-1 for a flow diagram of the compliance procedures):

1) Determine the coating category and the applicable VOHAP limit as specified in Specific Condition No. A.8.
2) Certify the as-supplied VOC content of the batch of coating. The owner or operator may use a certification supplied by the manufacturer for the batch, although the owner or operator retains liability should subsequent testing reveal a violation. If the owner or operator performs the certification testing, only one of the containers in which the batch of coating was received is required to be tested.

[40 CFR 63.785(a)]

A.13. In lieu of testing each batch of coating, as applied, the owner or operator may determine compliance with the VOHAP limits using any combination of the procedures described in Specific Condition No. A.15. The procedure used for each coating shall be determined and documented prior to application.
[40 CFR 63.785(b)]

A.14. The results of any compliance demonstration conducted by the affected source or any regulatory agency using Method 24 shall take precedence over the results using the procedures in Specific Condition No. A.15.
[40 CFR 63.785(b)]

A.15. Coating Compliance Methods:

1) **Coatings to which thinning solvent will not be added**. For coatings to which thinning solvent (or any other material) will not be added under any circumstance or to which only water is added, the owner or operator of an affected source shall comply as follows:
   i. Certify the as-applied VOC content of each batch of coating.
   ii. Notify the persons responsible for applying the coating that no thinning solvent may be added to the coating by affixing a label to each container of coating in the batch.
   iii. If the certified as-applied VOC content of each batch of coating used during a calendar month is less than or equal to the applicable VOHAP limit in Specific Condition No. A.8. (either in terms of g/L of coating or g/L of solids), then compliance is demonstrated for that calendar month, unless a violation is revealed using Method 24.

2) **Coatings to which thinning solvent will be added--coating-by-coating compliance.** For a coating to which thinning solvent is routinely or sometimes added, the owner or operator shall comply as follows:
   i. Prior to the first application of each batch, designate a single thinner for the coating and calculate the maximum allowable thinning ratio (or ratios, if the affected source complies with the cold-weather limits in addition to the other limits specified in Table 1) for each batch as follows:

$$R = \frac{(V_s)(VOHAPlimit) - m_{VOC}}{D_{th}} \qquad \text{Eqn. 1}$$

where:

R =	Maximum allowable thinning ratio for a given batch (L thinner/L coating as supplied)
V_s =	Volume fraction of solids in the batch as supplied (L solids/L coating as supplied)
VOHAP limit =	Maximum allowable as-applied VOHAP content of the coating (g VOHAP/L solids)
m_{voc}=	VOC content of the batch as supplied [g VOC (including cure volatiles and exempt compounds on the HAP list)/L coating (including water and a exempt compounds) as supplied]
D_{th} =	Density of the thinner (g/L)

If V_s is not supplied directly by the coating manufacturer, the owner or operator shall determine V_s as follows:

$$V_s = 1 - \frac{m_{volatiles}}{D_{avg}} \qquad \text{Eqn.2}$$

where:

$m_{volatiles}$ = Total volatiles in the batch, including VOC, water, and exempt compounds, (g/L coating)

D_{avg} = Average density of volatiles in the batch (g/L)

The procedures specified in Specific Condition No. A.19. may be used to determine the values of variables defined in this paragraph. In addition, the owner or operator may choose to construct nomographs, based on Equation 1, similar or identical to the one provided in appendix B as a means of easily estimating the maximum allowable thinning ratio.

ii. Prior to the first application of each batch, notify painters and other persons, as necessary, of the designated thinner and maximum allowable thinning ratio(s) for each batch of the coating by affixing a label to each container of coating.

iii. By the 15th day of each calendar month, determine the volume of each batch of the coating used, as supplied, during the previous month.

iv. By the 15th day of each calendar month, determine the total allowable volume of thinner for the coating used during the previous month as follows:

$$V_{th} = \sum_{i=1}^{n} (R \times V_b)_i + \sum_{i=1}^{n} (R_{cold} \times V_{b\text{-}cold})_i$$

Eqn. 3

where:

V_{th} = Total allowable volume of thinner for the previous month (L thinner)

V_b = Volume of each batch, as supplied and before being thinned, used during non-cold-weather days of the previous month (L coating as supplied)

R_{cold} = Maximum allowable thinning ratio for each batch used during cold-weather days (L thinner/L coating as supplied)

$V_{b\text{-}cold}$ = Volume of each batch, as supplied and before being thinned, used during cold-weather days of the previous month (L coating as supplied)

i = Each batch of coating

n = Total number of batches of the coating

v. By the 15th day of each calendar month, determine the volume of thinner actually used with the coating during the previous month.

vi. If the volume of thinner actually used with the coating [paragraph (2)(v) of this specific condition] is less than or equal to the total allowable volume of thinner for the coating [paragraph (2)(iv) of this specific condition], then compliance is demonstrated for the coating for the previous month, unless a violation is revealed using Method 24.

3) **Coatings to which the same thinning solvent will be added--group compliance.** For coatings to which the same thinning solvent (or other material) is routinely or sometimes added, the owner or operator shall comply as follows:

i. Designate a single thinner to be added to each coating during the month and "group" coatings according to their designated thinner.
ii. Prior to the first application of each batch, calculate the maximum allowable thinning ratio (or ratios, if the affected source complies with the cold-weather limits in addition to the other limits specified in Table 1) for each batch of coating in the group using the equations in paragraph (2) of this specific condition.
iii. Prior to the first application of each "batch", notify painters and other persons, as necessary, of the designated thinner and maximum allowable thinning ratio(s) for each batch in the group by affixing a label to each container of coating.
iv. By the 15th day of each calendar month, determine the volume of each batch of the group used, as supplied, during the previous month.
v. By the 15th day of each calendar month, determine the total allowable volume of thinner for the group for the previous month using Equation 3.
vi. By the 15th day of each calendar month, determine the volume of thinner actually used with the group during the previous month.
vii. If the volume of thinner actually used with the group [paragraph (3)(vi) of this section] is less than or equal to the total allowable volume of thinner for the group [paragraph (3)(v) of this specific condition], then compliance is demonstrated for the group for the previous month, unless a violation is revealed using Method 24.

[40 CFR 63.785(c)]

A.16. A violation revealed through any approved test method shall result in a 1-day violation for enforcement purposes. A violation revealed through the recordkeeping procedures described in Specific Condition No. A.15. shall result in a 30-day violation for enforcement purposes, unless the owner or operator provides sufficient data to demonstrate the specific days during which noncompliant coatings were applied.
[40 CFR 63.785(d)]

Test Methods and Procedures

{Permitting note: Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

A.17. Compliance with the emission limitation of Specific Condition Nos. A.3. and A.4. shall be determined using EPA Method 24 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C., and the recordkeeping as required in Specific Condition No. A.22. Instead of Method 24, a certification by the coating manufacturer of the composition of the coating if it is supported by actual batch formulation records is acceptable. The manufacturer's certification must be consistent with EPA's document number 450/3-84-019, "Procedures for Certifying Quantity of Volatile Organic Compounds Emitted by Paint, Ink, and Other Coatings," as corrected on August 5, 1986.
[Rules 62-296.500(2)(b)4. and 62-296.513(4)(a), F.A.C.]

A.18. For the compliance procedures described in Specific Condition No. A.15., Method 24 of 40 CFR 60, appendix A, is the definitive method for determining the VOC content of coatings, as supplied or as applied. When a coating or thinner contains exempt compounds that are volatile HAP or VOHAP, the owner or operator

shall ensure, when determining the VOC content of a coating, that the mass of these exempt compounds is included. [40 CFR 63.786(a)]

A.19. A coating manufacturer or the owner or operator of an affected source may use batch formulation data as a test method in lieu of Method 24 to certify the as-supplied VOC content of a coating if the manufacturer or the owner or operator has determined that batch formulation data have a consistent and quantitatively known relationship to Method 24 results. This determination shall consider the role of cure volatiles, which may cause emissions to exceed an amount based solely upon coating formulation data. Notwithstanding such determination, in the event of conflicting results, Method 24 shall take precedence. [40 CFR 63.786(c)]

A.20. Each owner or operator of an affected source shall use or ensure that the manufacturer uses the form and procedures mentioned in appendix A to determine values for the thinner and coating parameters used in Equations 1 and 2. The owner or operator shall ensure that the coating/thinner manufacturer (or supplier) provides information on the VOC and VOHAP contents of the coatings/thinners and the procedure(s) used to determine these values. [40 CFR 63.786(d)]

A.21. The permittee shall maintain the records from Specific Condition A.17 on site and they shall be made available upon request to the Environmental Protection Commission of Hillsborough County.
[Rule 62-296.500(2)(b)4., F.A.C.]

A.22. Compliance with the emission limitations of Specific Condition Nos. A.3., A.4. and A.6. shall be demonstrated by the following records which shall be maintained on a daily basis for the most recent five years of operation:

A) The rule number applicable to the operation for which the records are being maintained and the date.
B) The application method, and the vessel, the vessel location, or part applied to.
C) The amount and type of coatings (including catalyst and reducer for multi-component coatings) and solvent used at each point of application, including exempt compounds in gallons. Segregate the RACT and non-RACT coatings, and indicate HAPs.
D) The VOC content as applied in each coating and solvent.
E) The amount of surface preparation, clean-up, wash-up solvent (including exempt compounds) used and the VOC content of each.
F) Whether any solvent washings were directed to a container that prevented evaporation into the atmosphere.
G) Sum the total VOC and HAP emissions from the coating operations and the RACT and non-RACT coating usage for each month and maintain a 12 month rolling total.

[Rules 62-296.500(2)(b) and 62-213.440(1)(b)2., F.A.C.]

A.23. In order to demonstrate compliance with Specific Condition Nos. A.2, A.3, A.4 and A.6, the permittee shall maintain monthly records and twelve consecutive month totals on coating (RACT) usage (including thinner and cleanup solvent usage), volatile organic compound usage, volatile organic compound emissions, individual HAP emissions, and total HAP emissions. The records shall be maintained for a minimum of 5 years.
[Rules 62-4.070(3) and 62-213.440(1)(b)2., F.A.C.; and Construction Permit No. 0570442-015-AC]

A.24. [Reserved].

A.25. Each owner or operator of an affected source shall compile records on a monthly basis and maintain those records for a minimum of 5 years. At a minimum, these records shall include:

A) All documentation supporting initial notification;
B) A copy of the affected source's approved implementation plan;
C) The volume of each low-usage-exempt coating applied;
D) Identification of the coatings used, their appropriate coating categories, and the applicable VOHAP limit;

E) Certification of the as-supplied VOC content of each batch of coating;
F) A determination of whether containers meet the standards as described in Specific Condition No. A.9.(B); and
G) The results of any Method 24 measurement test conducted on individual containers of coating, as applied.
[40 CFR 63.788(b)(2)]

A.26. The records required by Specific Condition No. A.25. shall include additional information, as determined by the compliance procedure(s) described in Specific Condition No. A.15. that each affected source followed:

A) **Coatings to which thinning solvent will not be added.** The records maintained by facilities demonstrating compliance using the procedure described in Specific Condition No. A.15.(1) shall contain the following information:
   i. Certification of the as-applied VOC content of each batch of coating; and
   ii. The volume of each coating applied.

B) **Coatings to which thinning solvent will be added--coating-by-coating compliance.** The records maintained by facilities demonstrating compliance using the procedure described in Specific Condition No. A.15.(2) shall contain the following information:
   i. The density and mass fraction of water and exempt compounds of each thinner and the volume fraction of solids (non-volatiles) in each batch, including any calculations;
   ii. The maximum allowable thinning ratio (or ratios, if the affected source complies with the cold-weather limits in addition to the other limits specified in Table 1) for each batch of coating, including calculations;
   iii. If an affected source chooses to comply with the cold-weather limits, the dates and times during which the ambient temperature at the affected source was below 4.5°C (40°F) at the time the coating was applied and the volume used of each batch of the coating, as supplied, during these dates;
   iv. The volume used of each batch of the coating, as supplied;
   v. The total allowable volume of thinner for each coating, including calculations; and
   vi. The actual volume of thinner used for each coating.

C) **Coatings to which the same thinning solvent will be added--group compliance**. The records maintained by facilities demonstrating compliance using the procedure described in Specific Condition No. A.15.(3) shall contain the following information:
   i. The density and mass fraction of water and exempt compounds of each thinner and the volume fraction of solids in each batch, including any calculations;
   ii. The maximum allowable thinning ratio (or ratios, if the affected source complies with the cold-weather limits in addition to the other limits specified in Table 1) for each batch of coating, including calculations;
   iii. If an affected source chooses to comply with the cold-weather limits, the dates and times during which the ambient temperature at the affected source was below 4.5°C (40°F) at the time the coating was applied and the volume used of each batch in the group, as supplied, during these dates;
   iv. Identification of each group of coatings and their designated thinners;
   v. The volume used of each batch of coating in the group, as supplied;
   vi. The total allowable volume of thinner for the group, including calculations; and
   vii. The actual volume of thinner used for the group.

[40 CFR 63.788(b)(3)]

A.27. If the owner or operator of an affected source detects a violation of the standards specified in Specific Condition Nos. A.8.and A.9., the owner or operator shall, for the remainder of the reporting period during which the violation(s) occurred, include the following information in his or her records:

A) A summary of the number and duration of deviations during the reporting period, classified by reason, including known causes for which a Federally-approved or promulgated exemption from an emission limitation or standard may apply.
B) Identification of the data availability achieved during the reporting period, including a summary of the number and total duration of incidents that the monitoring protocol failed to perform in accordance with the design of the protocol or produced data that did not meet minimum data accuracy and precision requirements, classified by reason.
C) Identification of the compliance status as of the last day of the reporting period and whether compliance was continuous or intermittent during the reporting period.
D) If, pursuant to paragraph (C) of this specific condition, the owner or operator identifies any deviation as resulting from a known cause for which no Federally-approved or promulgated exemption from an emission limitation or standard applies, the monitoring report shall also include all records that the source is required to maintain that pertain to the periods during which such deviation occurred and:
   i. The magnitude of each deviation;
   ii. The reason for each deviation;
   iii. A description of the corrective action taken for each deviation, including action taken to minimize each deviation and action taken to prevent recurrence; and
   iv. All quality assurance activities performed on any element of the monitoring protocol.

[40 CFR 63.788(b)(4)]

A.28. Before the 60th day following completion of each 6-month period after the compliance date specified in 40 CFR 63.784 (December 15, 1997), each owner or operator of an affected source shall submit a report to the Environmental Protection Commission of Hillsborough County for each of the previous 6 months. The report shall include all of the information that must be retained pursuant to Specific Condition Nos. A.25. and A.26., except for that information specified in A.25.(A), (B), and (E) and A.26.(A)(i), (B)(i), (C)(i). If a violation at an affected source is detected, the source shall also report the information specified in Specific Condition No. A.27. of this section for the reporting period during which the violation(s) occurred. To the extent possible, the report shall be organized according to the compliance procedure(s) followed each month by the affected source.
[40 CFR 63.788(c)]

A.29. The EPA VOC DATA SHEET - Properties of the Coating "As Supplied" by the Manufacturer, shall be kept on-site for each material and made available upon request to the Environmental Protection Commission of Hillsborough County. If any materials are added to an “as supplied” coating, then the EPA VOC DATA SHEET - Properties of the Coating “As Applied” to the Substrate for that coating shall be used. Tampa Bay Shipbuilding and Repair Company, Inc. may use those alternative recordkeeping sheets specifically approved in writing by the Environmental Protection Commission of Hillsborough County instead of EPA VOC DATA SHEETS “As Applied” and “As Supplied”.
[Rule 62-4.070(3), F.A.C., Rule 62-296.513(4)(a), F.A.C.]

The following conditions apply to the NESHAP emissions unit listed above:

A.30. The permittee shall comply with 40 CFR Part 63, Subpart A - General Provisions (Appendix NESHAP, Subpart A - General Provisions Applicability to Subpart II).
[Rule 62-204.800(10)(d), F.A.C.]

TABLE 1: VOLATILE ORGANIC HAP (VOHAP) LIMITS FOR MARINE COATINGS			
Coating Category	VOHAP limits[a,b,c]		
	grams/liter coating (minus water and exempt compounds)	grams/liter solids[d]	
		t ≥ 4.5°C	t < 4.5°C[e]
General use	340	571	728
Specialty	--	--	--
Air flask	340	571	728
Antenna	530	1,439	--
Antifoulant	400	765	971
Heat resistant	420	841	1,069
High-gloss	420	841	1,069
High-temperature	500	1,237	1,597
Inorganic zinc high-build	340	571	728
Military exterior	340	571	728
Mist	610	2,235	--
Navigational aids	550	1,597	--
Nonskid	340	571	728
Nuclear	420	841	1,069
Organic zinc	360	630	802
Pretreatment wash primer	780	11,095	--
Repair and maint. of thermoplastics	550	1,597	--
Rubber camouflage	340	571	728
Sealant for thermal spray aluminum	610	2,235	--
Special marking	490	1,178	--
Specialty interior	340	571	728
Tack coat	610	2,235	--
Undersea weapons systems	340	571	728
Weld-through precon. Primer	650	2,885	--

[a]The limits are expressed in two sets of equivalent units. Either set of limits may be used for the compliance procedure described in Specific Condition No. A.15.(A), but only the limits expressed in units of g/L

solids (nonvolatiles) shall be used for the compliance procedures described in Specific Condition No. A.15.(B) and (C).

[b]VOC (including exempt compounds listed as HAP) shall be used as a surrogate for VOHAP for those compliance procedures described in Specific Condition A.15.

[c]To convert from g/L to lb/gal, multiply by (3.785 L/gal)(1/453.6 lb/g) or 1/120. For compliance purposes, metric units define the standards.

[d]VOHAP limits expressed in units of mass of VOHAP per volume of solids were derived from the VOHAP limits expressed in units of mass of VOHAP per volume of coating assuming the coatings contain no water or exempt compounds and that the volumes of all components within a coating are additive.

[e]These limits apply during cold-weather time periods, as defined in Appendix D-1. Cold-weather allowances are not given to coatings in categories that permit less than 40 percent volume solids (nonvolatiles). Such coatings are subject to the same limits regardless of weather conditions.

The specific conditions in this section apply to the following emissions units:

EU No.	Brief Description
003	Grit Blasting and Diesel Compressors
004	Grit Silos and Blasting Pots

Essential Potential to Emit (PTE) Parameters

B.1. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year.
[Rules 62-4.160(2) and 62-210.200(228), F.A.C.]

B.2. Only diesel fuel, no used or waste oils, shall be burned in the diesel compressors.
[Rule 62-4.070(3), F.A.C.]

B.3. The following operating and usage restrictions shall apply:
[Rules 62-212.300(1)(d) and 62-4.070(3), F.A.C., and Air Construction Permit Nos. 0570442-010-AC and 0571312-001-AC]

A) No more than 24,370 tons of abrasive grit shall be used in any 12 month period.
B) No more than 473,040 gallons diesel fuel shall be used in any 12 month period. Sulfur content of the fuel shall not exceed 0.05 percent by weight.
C) All dust laden air which is displaced in the silo loading process shall be filtered before being discharged to the ambient air.
D) Blasting operations are individually limited to a maximum of 16 external blasting nozzles and 18 internal blasting nozzles in operation on a single ship at any time. The facility (including operations at the Hendry site and the former Hooker's Point site) may operate up to 40 internal or external blasting nozzles at one time; however, no more than the maximum number as demonstrated by the latest compliance test can be operated on a single ship.
E) All miscellaneous metal parts to be blasted separate from the dry docks shall be placed within the blasting/coating booth (EU008) whenever practical. The small parts blasting/coating area may remain active after the new booth is installed, and may be used to process parts that cannot be accommodated in the new booth.
F) The maximum loading pressure for the grit blasting storage silo shall not exceed 15 psia.

{Permitting note: Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

B.4. In order to limit the potential to emit to exempt the facility from Rule 62-212.400, F.A.C., the maximum particulate matter emissions from the grit blasting operations shall not exceed 83.4 tons (including diesel compressor and silo/pot loading emissions) for any 12 consecutive month period.
[Rule 62-212.300(1)(d), F.A.C. and Air Construction Permit Nos. 0570442-010-AC and 0571312-001-AC]

B.5. In order to limit the potential to emit (PTE), the following limitations and restrictions shall apply:
[Rules 62-4.070(3), 62-296.320(4)(b)1. and 62-296.712(2), F.A.C., Chapter 1-3.52, Rules of the EPC, Air Construction Permit Nos. 0570442-010-AC, 012-AC and 014-AC]

A) Visible emissions from the grit blasting activities (includes external ship blasting operations, internal ship blasting and the diesel air compressors) shall not be equal to or greater than 20% opacity;
B) Visible emissions from the abrasive grit storage silos and abrasive blasting of miscellaneous metal parts in the

blasting/coating booth or the blasting/coating containment area, shall not be greater than 5% opacity.

B.6. Periodic Monitoring. To assure compliance with Specific Condition B.5., the permittee shall conduct 12 minute visible emission (VE) observations using EPA Method 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. The testing shall be conducted as follows:

Activity/Unit	Frequency	Condition
External Blasting	Once per day[1,2]	At point of maximum opacity leaving the dry dock/tarp enclosure
Grit Silos	One silo, per ship[2]	During grit loading
Diesel Compressors	One compressor, per day[2,3]	Compressor with highest visible emissions

1 - If multiple ships are being blasted on the same day, the 12-minute VE observation should be performed on the ship with the highest visible emission observed during a comprehensive scan of the area. Records of the total number of nozzles in operation across the facility shall be recorded with each observation.
2 - Any observed malfunctions from the silos, diesel compressors or blasting activities shall initiate immediate corrective action to maintain visible emissions below the applicable opacity standard. This includes contracted silos brought in for specific blasting activities.
3 - If multiple ships are being blasted on the same day, the VE observation should be performed on the compressor with the highest visible emission observed during a review of all compressors operating. If wet-blasting of parts is occurring and the diesel compressors are not being utilized, then no 12-minute VE observation is required; however, records indicating this type of blasting and the times in operation must be maintained.

Any required testing that occurs only during the nighttime hours without the opportunity to perform the appropriate visible emission test shall be excluded from testing; however, detailed records shall be maintained indicating the affected vessels, type of activity and documentation of times that the activity was occurring. These records shall be maintained with the test records above and be summarized as stated in Specific Condition B.13.
[Rules 62-213.440(b)1.b. and 62-4.070(3), F.A.C.]

B.7. When internal blasting is being performed with displaced air being vented to a portable control device, a visible emissions check shall be performed during the blasting operation. If any emissions are observed, the permittee shall immediately conduct a 12-minute visible emission observation using EPA Method 9 contained in 40 CFR 60, Appendix A. If any emissions over 20% opacity are observed, the permittee shall initiate immediate corrective action to eliminate excessive visible emissions. If internal blasting occurs entirely during nighttime hours and VE observations are not practical, detailed records shall be maintained to document the affected vessel and the time of the activity. Records of the VE checks, VE observations, formal VE tests, nighttime internal blasting and any maintenance performed shall be maintained in conjunction with Specific Conditions B.6 and B.13.
[Rule 62-4.070(3), F.A.C.]

B.8. During each federal fiscal year (October 1 - September 30), unless otherwise specified by rule, order, or permit, the permittee shall have a formal compliance test conducted to demonstrate compliance with Specific Condition B.5. The tests shall include testing at the point of highest observed opacity for external blasting, internal blasting, silo loading and diesel compressor operations. If a required testing point is not operated during the fiscal year, a test is not required for that affected source; however, a VE test is required at the next instance of that source's operation.

Individual testing for both internal and external blasting is required to establish the maximum permitted nozzle usage on a single ship. External nozzle usage is limited to 16 nozzles on a single ship, but must be tested at capacity annually to maintain that limit. Internal nozzle usage is limited to 18 nozzles on a single ship, but must be tested at

capacity annually to maintain that limit. Both internal and external nozzle usage is also limited to a facility-wide total of 40 nozzles each. Records must be maintained per Specific Condition B.6 to ensure that no more than 40 nozzles are in operation at one time.

The permittee shall also perform a visible emission test on the blasting operation upon initial blasting with any new metallic slag that has been recognized by the EPC in accordance with Facility-Wide Condition FW6.
[Rule 62-297.310(7)(a)4., F.A.C.; and Construction Permit No. 0570442-015-AC]

B.9. Compliance with Specific Condition B.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. Specific observation shall be conducted during the dry blasting of the exterior of a marine vessel. All EPA Method 9 compliance testing observation periods shall be at least thirty (30) minutes in duration, unless specifically defined by another condition within Subpart B of this permit. The observation point for each blasting operation test shall be at the point of maximum opacity leaving the dry dock enclosure, tarp enclosure, or wind screens, whichever is applicable. 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 62-296.320(4)(b)4. and 62-4.070(3), F.A.C.; and Construction Permit No. 0570442-015-AC]

B.10. Compliance testing shall be conducted with the source operating at capacity. Capacity is defined as 90-100% of rated capacity, meaning the uninterrupted operation of sixteen external abrasive blasting nozzles per ship (90% rated capacity is represented by fifteen nozzles) and eighteen internal abrasive blasting nozzles per ship (90% rated capacity is represented by seventeen nozzles). If it is impracticable to test at capacity, then the source may be tested at less than capacity; in this case subsequent source operation is limited to 110% of the test load until a new test is conducted. Internal and external blasting must be tested separately to establish individual maximum nozzle usage per ship, up to the maximum stated.

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 Environmental Protection Commission of Hillsborough County. Failure to submit the input rates and actual operating conditions, including the number of nozzles that operated, may invalidate the test. Ambient wind speed and direction shall be reported with the test.

The silo loading and compressor emissions testing should be performed with each operating at the maximum typical loading rates. Silo loading should occur at a minimum of 11 psi to ensure typical loading rates. Failure to submit actual test data including the pneumatic loading pressure from the truck to the silo during silo filling and the operating pressure to the line from the compressor may invalidate the tests.
[Rules 62-4.070(3) and 62-297.310(2), F.A.C.]

B.11. The permittee shall notify the Environmental Protection Commission of Hillsborough County at least 15 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the contact person who will be responsible for coordinating and having such test conducted. Two copies of any visible emissions compliance testing shall be submitted to the Air Management Division of the EPC within 45 days of such testing. [Rule 62-297.310(7)(a), F.A.C.]

B.12. In order to insure compliance with the permit restrictions and emission limitations of Specific Condition Nos. B.3. and B.4., the permittee shall maintain the following records:

A) Daily amount and type of abrasive blasting material used.
B) Monthly and 12-month rolling totals of abrasive blasting material used and associated PM emissions.

C) Number of blasting nozzles used per blasting operation on the dry dock and at the blasting/coating booth or containment area for the miscellaneous metals parts blasting.
D) Amount of diesel fuel used.

The permittee shall also maintain monthly records of periodic monitoring results in order to demonstrate compliance with Specific Condition Nos. B.5., B.6. and B.7. The periodic monitoring records should document all required VE observations including dates, times and ship identity. The records should also identify any nighttime blasting activities that prevented required observations or testing including appropriate dates, times and ship identity. [Rule 62-4.070(3), F.A.C.]

B.13. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

B.14. Records required by Specific Condition B.12. shall be maintained for a minimum of 5 years and the calendar year-ending 12-month totals from Specific Condition B.12 shall be included in the "Annual Operating Report for Air Pollutant Emitting Facility" (see Facility-Wide Condition FW7).
[Rules 62-4.070(3) and 62-213.440(1)(b)2., F.A.C.]

Compliance Plan for the Hooker's Point Site

B.15. Test the emissions from all parts of the blasting operation for opacity on the first instance that blasting operations occur at the Hooker's Point site and submit two copies of test data to the Air Management Division of the Environmental Protection Commission of Hillsborough County office within forty-five days of such testing. The tests shall include testing at the point of highest observed opacity for external blasting, internal blasting, silo loading and diesel compressor operations. Testing procedures shall be consistent with the requirements of Rule 62-297, F.A.C.
[Rule 62-297.310(7)(a)4. and 62-4.070(3), F.A.C., Construction Permit No. 0570442-010-AC]

B.16. The blasting/painting containment area to be added to the Hooker's Point site shall be covered on all sides, including the top, with tarps or barriers with at least 95% shade factor to fully enclose the blasting and painting of miscellaneous parts separate from the dry dock. To minimize the potential impact of the blasting/painting operations to the soil, the blasting/painting containment area shall operate over an impermeable surface, such as concrete or sealed asphalt, and be surrounded by berms or dikes to minimize the effect of water run-off from the area.
[Rule 62-4.070(3), F.A.C.; and Construction Permit No. 0570442-010-AC]

B.17. The spent grit storage area to be added to the Hooker's Point site shall be fully covered on the top to prevent rainwater from washing out fine materials onto the site and into the bay. It shall also include solid walls, tarps or barriers with at least 95% shade factor on at least three sides to reduce fugitive emissions from high winds. To minimize the potential impact of grit storage to the soil, the spent grit storage area shall operate over an impermeable surface, such as concrete or sealed asphalt, and be surrounded by berms or dikes to minimize the effect of water run-off from the area. The permittee shall also coat the spent grit as needed to minimize fugitive emissions.
[Rule 62-4.070(3), F.A.C.; and Construction Permit No. 0570442-010-AC]

B.18. If a stationary diesel compressor greater than 500 hp is added to the facility, the permittee shall determine the applicability of 40 CFR 63 Subpart ZZZZ, and provide notification of the result to the permitting authority prior to initiating any installation of such a unit.
[40 CFR 63.6585]

Excess Emissions

B.19. Excess Emissions Allowed. Excess emissions resulting from malfunction shall be permitted provided that 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 Department for longer duration. [Rule 62-210.700(1), F.A.C.]

B.20. Excess Emissions Allowed. Excess emissions resulting from startup or shutdown shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized. [Rule 62-210.700(2), F.A.C.]

B.21. Excess Emissions Prohibited. 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. [Rule 62-210.700(4), F.A.C.]

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
008	Blasting/Coating Booth

Coating Operation

C.1. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

C.2. Facility-wide coating usage is limited to 65,000 gallons for coatings applied to ship exteriors, 40,500 gallons for coatings applied to ship interiors and miscellaneous metal parts, and 11,600 gallons of thinners and solvents for any 12 consecutive month period. The facility-wide limit includes coating used within the blasting/coating booth.
[Rule 62-212.300(1)(d), F.A.C.; Air Construction Permit Nos. 0570442-010-AC, 0571312-001-AC, and 0570442-014-AC]

C.3. For any coating applied to a metal surface within the new blasting/coating booth, the volatile organic compound content of the coatings shall not exceed 3.5 pounds per gallon of coating, excluding water, delivered to the coating applicator. This shall apply to all flat metal plates, miscellaneous metal parts, ship modules, and sections fabricated for the purpose of converting or extending an existing ship. Whenever possible, all miscellaneous metal parts to be coated separate from the dry docks shall be contained within the new blasting/coating booth or the existing blasting/coating containment area during the coating application process.
[Rules 62-296.513(2)(a)2. & 3., 62-296.513(1)(b)10., and 62-4.070(3), F.A.C.]

[Permitting Note: Portions of a vessel which are removed for convenience and coated separately in the new blasting/coating booth are subject to the maximum VOC content of 3.5 lb/gal as dictated in Specific Condition No. C.3. Once a part has been permanently attached to a ship and has become a part of its completed structure, it can then be identified as an external part of the ship and is not required to meet the 3.5 pounds per gallon of coating, excluding water, delivered to the coating applicator VOC-RACT limit.]

C.4. The VOC content of any solvents or thinners used shall not exceed 8.0 lbs/gal on an annual average basis. [Rule 62-4.070(3), F.A.C.; and Air Construction Permit No. 0570442-010-AC]

C.5. In order to limit the potential to emit, the total facility-wide volatile organic compound (VOC) emissions from the coating operations shall not exceed 231 tons per any 12 consecutive month period. Total HAP emissions shall not exceed 189.4 tons per any 12 consecutive month period. The facility-wide limit includes emissions from coatings used within the blasting/coating booth.
[Rules 62-4.070(3) and 62-212.300(1)(d), F.A.C.; Air Construction Permit Nos. 0570442-010-AC, 0571312-001-AC and 0570442-014-AC]

C.6. All VOC emissions from solvent washings shall be considered in the usage and emission limitations of coatings subject to Specific Condition Nos. C.2 and C.5, unless the solvent is directed into containers that prevent evaporation into the atmosphere.
[Rule 62-296.513(2)(c), F.A.C.]

NESHAP (40 CFR 63), Subpart II Requirements

C.7. No owner or operator of any existing or new affected source shall cause or allow the application of any coating to a ship or miscellaneous metal part relating to ship fabrication or repair (including all coating operations in the new booth) with an as-applied VOHAP content exceeding the applicable limit given in Table 1 below, as determined by the procedures described in Specific Condition No. C.14. For the compliance procedures described in Specific Condition No. C.14., VOC shall be used as a surrogate for VOHAP, and the EPA Reference Method 24 shall be used as the definitive measure for determining compliance. [40 CFR 63.783(a)]

C.8. Each owner or operator of a new or existing affected source shall ensure that:

A) All handling and transfer of VOHAP-containing materials to and from containers, tanks, vats, drums, and piping systems is conducted in a manner that minimizes spills.

B) All containers, tanks, vats, drums, and piping systems are free of cracks, holes, and other defects and remain closed unless materials are being added to or removed from them.

[40 CFR 63.783(b)]

C.9. Specific Condition Nos. C.7 and C.8 do not apply to coatings used in volumes of less than 200 liters (52.8 gallons) per year, provided the total volume of coating exempt under this paragraph does not exceed 1,000 liters per year (264 gallons per year) at any facility. Coatings exempt under this paragraph shall be clearly labeled as ''low-usage exempt,'' and the volume of each such coating applied shall be maintained in the facility's records.
[40 CFR 63.781(b)]

C.10. Specific Condition Nos. C.7 and C.8 do not apply to coatings applied with hand-held, non-refillable, aerosol containers or to unsaturated polyester resin (i.e., fiberglass lay-up) coatings. Coatings applied to suitably prepared fiberglass surfaces for protective or decorative purposes are subject to Specific Condition Nos. C.7 and C.8.
[40 CFR 63.781(c)]

C.11. For each batch of coating that is received by an affected source, the owner or operator shall (see Appendix F-1 for a flow diagram of the compliance procedures):

1) Determine the coating category and the applicable VOHAP limit as specified in Specific Condition Nos. C.7 and C.14.

2) Certify the as-supplied VOC content of the batch of coating. The owner or operator may use a certification supplied by the manufacturer for the batch, although the owner or operator retains liability should subsequent testing reveal a violation. If the owner or operator performs the certification testing, only one of the containers in which the batch of coating was received is required to be tested.

[40 CFR 63.785(a)]

C.12. In lieu of testing each batch of coating, as applied, the owner or operator may determine compliance with the VOHAP limits using any combination of the procedures described in Specific Condition No. C.14. The procedure used for each coating shall be determined and documented prior to application.
[40 CFR 63.785(b)]

C.13. The results of any compliance demonstration conducted by the affected source or any regulatory agency using Method 24 shall take precedence over the results using the procedures in Specific Condition No. C.14.
[40 CFR 63.785(b)]

C.14. Coating Compliance Methods:

1) **<u>Coatings to which thinning solvent will not be added</u>**. For coatings to which thinning solvent (or any other material) will not be added under any circumstance or to which only water is added, the owner or operator of an affected source shall comply as follows:

   i. Certify the as-applied VOC content of each batch of coating.

ii. Notify the persons responsible for applying the coating that no thinning solvent may be added to the coating by affixing a label to each container of coating in the batch.

iii. If the certified as-applied VOC content of each batch of coating used during a calendar month is less than or equal to the applicable VOHAP limit in Specific Condition No. C.7 (either in terms of g/L of coating or g/L of solids), then compliance is demonstrated for that calendar month, unless a violation is revealed using Method 24.

2) **<u>Coatings to which thinning solvent will be added--coating-by-coating compliance</u>.** For a coating to which thinning solvent is routinely or sometimes added, the owner or operator shall comply as follows:

i. Prior to the first application of each batch, designate a single thinner for the coating and calculate the maximum allowable thinning ratio (or ratios, if the affected source complies with the cold-weather limits in addition to the other limits specified in Table 1) for each batch as follows:

$$R = \frac{(V_s)(VOHAPlimit) - m_{VOC}}{D_{th}} \qquad \text{Eqn. 1}$$

where:

R = Maximum allowable thinning ratio for a given batch (L thinner/L coating as supplied)

V_s = Volume fraction of solids in the batch as supplied (L solids/L coating as supplied)

VOHAP limit = Maximum allowable as-applied VOHAP content of the coating (g VOHAP/L solids)

m_{voc}= VOC content of the batch as supplied [g VOC (including cure volatiles and exempt compounds on the HAP list)/L coating (including water and a exempt compounds) as supplied]

D_{th} = Density of the thinner (g/L)

If V_s is not supplied directly by the coating manufacturer, the owner or operator shall determine V_s as follows:

$$V_s = 1 - \frac{m_{volatiles}}{D_{avg}} \qquad \text{Eqn.2}$$

where:

$m_{volatiles}$ = Total volatiles in the batch, including VOC, water, and exempt compounds, (g/L coating)

D_{avg} = Average density of volatiles in the batch (g/L)

The procedures specified in Specific Condition No. C.18 may be used to determine the values of variables defined in this paragraph. In addition, the owner or operator may choose to construct nomographs, based on Equation 1, similar or identical to the one provided in appendix B as a means of easily estimating the maximum allowable thinning ratio.

ii. Prior to the first application of each batch, notify painters and other persons, as necessary, of the designated thinner and maximum allowable thinning ratio(s) for each batch of the coating by affixing a label to each container of coating.

iii. By the 15th day of each calendar month, determine the volume of each batch of the coating used, as supplied, during the previous month.

iv. By the 15th day of each calendar month, determine the total allowable volume of thinner for the coating used during the previous month as follows:

$$V_{th} = \sum_{i=1}^{n} (R \times V_b)_i + \sum_{i=1}^{n} (R_{cold} \times V_{b\text{-}cold})_i$$

Eqn. 3

where:

V_{th} = Total allowable volume of thinner for the previous month (L thinner)

V_b = Volume of each batch, as supplied and before being thinned, used during non-cold-weather days of the previous month (L coating as supplied)

R_{cold} = Maximum allowable thinning ratio for each batch used during cold-weather days (L thinner/L coating as supplied)

$V_{b\text{-}cold}$ = Volume of each batch, as supplied and before being thinned, used during cold-weather days of the previous month (L coating as supplied)

i = Each batch of coating

n = Total number of batches of the coating

v. By the 15th day of each calendar month, determine the volume of thinner actually used with the coating during the previous month.

vi. If the volume of thinner actually used with the coating [paragraph (2)(v) of this specific condition] is less than or equal to the total allowable volume of thinner for the coating [paragraph (2)(iv) of this specific condition], then compliance is demonstrated for the coating for the previous month, unless a violation is revealed using Method 24.

3) **Coatings to which the same thinning solvent will be added--group compliance.** For coatings to which the same thinning solvent (or other material) is routinely or sometimes added, the owner or operator shall comply as follows:

i. Designate a single thinner to be added to each coating during the month and "group" coatings according to their designated thinner.

ii. Prior to the first application of each batch, calculate the maximum allowable thinning ratio (or ratios, if the affected source complies with the cold-weather limits in addition to the other limits specified in Table 1) for each batch of coating in the group using the equations in paragraph (2) of this specific condition.

iii. Prior to the first application of each "batch", notify painters and other persons, as necessary, of the designated thinner and maximum allowable thinning ratio(s) for each batch in the group by affixing a label to each container of coating.

iv. By the 15th day of each calendar month, determine the volume of each batch of the group used, as supplied, during the previous month.

v. By the 15th day of each calendar month, determine the total allowable volume of thinner for the group for the previous month using Equation 3.

vi. By the 15th day of each calendar month, determine the volume of thinner actually used with the group during the previous month.

vii. If the volume of thinner actually used with the group [paragraph (3)(vi) of this section] is less than or equal to the total allowable volume of thinner for the group [paragraph (3)(v) of this specific condition], then compliance is demonstrated for the group for the previous month, unless a violation is revealed using Method 24.

[40 CFR 63.785(c)]

C.15. A violation revealed through any approved test method shall result in a 1-day violation for enforcement purposes. A violation revealed through the recordkeeping procedures described in Specific Condition No. C.14 shall result in a 30-day violation for enforcement purposes, unless the owner or operator provides sufficient data to demonstrate the specific days during which noncompliant coatings were applied.
[40 CFR 63.785(d)]

Test Methods and Procedures

C.16. Compliance with the emission limitation of Specific Condition No. C.3 shall be determined using EPA Method 24 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C., and the recordkeeping as required in Specific Condition No. C.22. Instead of Method 24, a certification by the coating manufacturer of the composition of the coating if it is supported by actual batch formulation records is acceptable. The manufacturer's certification must be consistent with EPA's document number 450/3-84-019, "Procedures for Certifying Quantity of Volatile Organic Compounds Emitted by Paint, Ink, and Other Coatings," as corrected on August 5, 1986.
[Rules 62-296.500(2)(b)4. and 62-296.513(4)(a), F.A.C.]

C.17. For the compliance procedures described in Specific Condition No. C.14, Method 24 of 40 CFR 60, appendix A, is the definitive method for determining the VOC content of coatings, as supplied or as applied. When a coating or thinner contains exempt compounds that are volatile HAP or VOHAP, the owner or operator shall ensure, when determining the VOC content of a coating, that the mass of these exempt compounds is included.
[40 CFR 63.786(a)]

C.18. A coating manufacturer or the owner or operator of an affected source may use batch formulation data as a test method in lieu of Method 24 to certify the as-supplied VOC content of a coating if the manufacturer or the owner or operator has determined that batch formulation data have a consistent and quantitatively known relationship to Method 24 results. This determination shall consider the role of cure volatiles, which may cause emissions to exceed an amount based solely upon coating formulation data. Notwithstanding such determination, in the event of conflicting results, Method 24 shall take precedence.
[40 CFR 63.786(c)]

C.19. Each owner or operator of an affected source shall use or ensure that the manufacturer uses the form and procedures mentioned in appendix A to determine values for the thinner and coating parameters used in Equations 1 and 2. The owner or operator shall ensure that the coating/thinner manufacturer (or supplier) provides information on the VOC and VOHAP contents of the coatings/thinners and the procedure(s) used to determine these values.
[40 CFR 63.786(d)]

C.20. The permittee shall maintain the records from Specific Condition No. C.16 on site and they shall be made available upon request to the Environmental Protection Commission of Hillsborough County.
[Rule 62-296.500(2)(b)4., F.A.C.]

C.21. The EPA VOC DATA SHEET - Properties of the Coating "As Supplied" by the Manufacturer, shall be kept on-site for each material and made available upon request to the Environmental Protection Commission of Hillsborough County. If any materials are added to an "as supplied" coating, then the EPA VOC DATA SHEET - Properties of the Coating "As Applied" to the Substrate for that coating shall be used. Tampa Bay Shipbuilding and Repair Company, Inc. may use those alternative recordkeeping sheets specifically approved in writing by the Environmental Protection Commission of Hillsborough County instead of EPA VOC DATA SHEETS "As Applied" and "As Supplied".
[Rule 62-4.070(3), F.A.C., Rule 62-296.513(4)(a), F.A.C.]

C.22. Compliance with the emission limitations of Specific Condition Nos. C.3 and C.5 shall be demonstrated by the following records which shall be maintained on a daily basis for the most recent five years of operation:

A) The rule number applicable to the operation for which the records are being maintained and the date.
B) The application method, and the part applied to.
C) The amount and type of coatings (including catalyst and reducer for multi-component coatings) and solvent used at each point of application, including exempt compounds in gallons.
D) The VOC content as applied in each coating and solvent.
E) The amount of surface preparation, clean-up, wash-up solvent (including exempt compounds) used and the VOC content of each.
F) Whether any solvent washings were directed to a container that prevented evaporation into the atmosphere.
G) Sum the total VOC and HAP emissions from the coating operations in the blasting/coating booth and the RACT coating usage for each month and maintain a 12 month rolling total.

[Rules 62-296.500(2)(b) and 62-213.440(1)(b)2., F.A.C.]

C.23. In order to demonstrate compliance with Specific Condition Nos. C.2, C.3, C.4 and C.5, the permittee shall maintain monthly records and twelve consecutive month totals for the new blasting/coating booth on coating (RACT) usage (including thinner and cleanup solvent usage), volatile organic compound usage, volatile organic compound emissions, individual HAP emissions, and total HAP emissions. The records shall be maintained for a minimum of 5 years. [Rules 62-4.070(3) and 62-213.440(1)(b)2., F.A.C.; and Construction Permit No. 0570442-015-AC]

C.24. The permittee shall compile records on a monthly basis and maintain those records for a minimum of 5 years. At a minimum, these records shall include:

A) All documentation supporting initial notification;
B) A copy of the affected source's approved implementation plan;
C) The volume of each low-usage-exempt coating applied;
D) Identification of the coatings used, their appropriate coating categories, and the applicable VOHAP limit;
E) Certification of the as-supplied VOC content of each batch of coating;
F) A determination of whether containers meet the standards as described in Specific Condition No. C.8.B); and
G) The results of any Method 24 measurement test conducted on individual containers of coating, as applied.

[40 CFR 63.788(b)(2)]

C.25. The records required by Specific Condition No. C.24 shall include additional information, as determined by the compliance procedure(s) described in Specific Condition No. C.14 that each affected source followed:

A) **Coatings to which thinning solvent will not be added.** The records maintained by facilities demonstrating compliance using the procedure described in Specific Condition No. C.14(1) shall contain the following information:
   i. Certification of the as-applied VOC content of each batch of coating; and
   ii. The volume of each coating applied.

B) **Coatings to which thinning solvent will be added--coating-by-coating compliance.** The records maintained by facilities demonstrating compliance using the procedure described in Specific Condition No. C.14(2) shall contain the following information:
   i. The density and mass fraction of water and exempt compounds of each thinner and the volume fraction of solids (non-volatiles) in each batch, including any calculations;
   ii. The maximum allowable thinning ratio (or ratios, if the affected source complies with the cold-weather limits in addition to the other limits specified in Table 1) for each batch of coating, including calculations;
   iii. If an affected source chooses to comply with the cold-weather limits, the dates and times during which the ambient temperature at the affected source was below 4.5°C (40°F) at the time the coating was applied and the volume used of each batch of the coating, as supplied, during these dates;
   iv. The volume used of each batch of the coating, as supplied;
   v. The total allowable volume of thinner for each coating, including calculations; and
   vi. The actual volume of thinner used for each coating.

C) **Coatings to which the same thinning solvent will be added--group compliance**. The records maintained by facilities demonstrating compliance using the procedure described in Specific Condition No. C.14(3) shall contain the following information:
   i. The density and mass fraction of water and exempt compounds of each thinner and the volume fraction of solids in each batch, including any calculations;
   ii. The maximum allowable thinning ratio (or ratios, if the affected source complies with the cold-weather limits in addition to the other limits specified in Table 1) for each batch of coating, including calculations;
   iii. If an affected source chooses to comply with the cold-weather limits, the dates and times during which the ambient temperature at the affected source was below 4.5°C (40°F) at the time the coating was applied and the volume used of each batch in the group, as supplied, during these dates;
   iv. Identification of each group of coatings and their designated thinners;
   v. The volume used of each batch of coating in the group, as supplied;
   vi. The total allowable volume of thinner for the group, including calculations; and
   vii. The actual volume of thinner used for the group.

[40 CFR 63.788(b)(3)]

C.26. If the owner or operator of an affected source detects a violation of the standards specified in Specific Condition Nos. C.7 and C.8, the owner or operator shall, for the remainder of the reporting period during which the violation(s) occurred, include the following information in his or her records:

A) A summary of the number and duration of deviations during the reporting period, classified by reason, including known causes for which a Federally-approved or promulgated exemption from an emission limitation or standard may apply.

B) Identification of the data availability achieved during the reporting period, including a summary of the number and total duration of incidents that the monitoring protocol failed to perform in accordance with the design of the protocol or produced data that did not meet minimum data accuracy and precision requirements, classified by reason.

C) Identification of the compliance status as of the last day of the reporting period and whether compliance was continuous or intermittent during the reporting period.

D) If, pursuant to paragraph (C) of this specific condition, the owner or operator identifies any deviation as resulting from a known cause for which no Federally-approved or promulgated exemption from an

emission limitation or standard applies, the monitoring report shall also include all records that the source is required to maintain that pertain to the periods during which such deviation occurred and:

i. The magnitude of each deviation;
ii. The reason for each deviation;
iii. A description of the corrective action taken for each deviation, including action taken to minimize each deviation and action taken to prevent recurrence; and
iv. All quality assurance activities performed on any element of the monitoring protocol.

[40 CFR 63.788(b)(4)]

C.27. Before the 60th day following completion of each 6-month period after the compliance date specified in 40 CFR 63.784 (December 15, 1997), each owner or operator of an affected source shall submit a report to the Environmental Protection Commission of Hillsborough County for each of the previous 6 months. The report shall include all of the information that must be retained pursuant to Specific Condition Nos. C.24 and C.25, except for that information specified in Specific Condition Nos. C.24(A), (B), and (E) and C.25(A)(i), (B)(i), (C)(i). If a violation at an affected source is detected, the source shall also report the information specified in Specific Condition No. C.26 of this section for the reporting period during which the violation(s) occurred. To the extent possible, the report shall be organized according to the compliance procedure(s) followed each month by the affected source.
[40 CFR 63.788(c)]

C.28. The permittee shall comply with 40 CFR Part 63, Subpart A - General Provisions (Appendix NESHAP, Subpart A - General Provisions Applicability to Subpart II). [Rule 62-204.800(10)(d), F.A.C.]

C.29. The permittee shall not store, handle, process, or use in any process the volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems as follows and as deemed necessary and ordered by the Department:

(A) Maintaining covers, lids, etc., on all containers when they are not being handled, tapped, etc.
(B) Where possible and practical, procuring/fabricating a tightly fitting cover for any open trough, basin, etc., of VOC so that it can be covered when not in use.
(C) Attending to all spills/waste as soon as practical but no later than one hour after the event.
(D) Using only airless spray applicators inside the blasting/coating booth (EU102) unless a request for use of another technology is submitted in writing and approved by the Environmental Protection Commissions of Hillsborough County.
(E) Using high solids coatings whenever they are available and whenever they meet customer specifications.
(F) All miscellaneous metal parts to be coated separate from the dry dock shall be placed within the blasting/coating booth (EU008) whenever practical. The small parts blasting/coating area may remain active after the new booth is installed, and may be used to process parts that cannot be accommodated in the new booth.
(G) The curtain/tarp on the east side of the booth shall be closed during any active coating application in order to help prevent overspray from exiting the booth. The baghouse is not required to be in operation during coating operations.

[Rules 62-296.320(1)(a) and 62-4.070(3), F.A.C., and Permit Nos. 0570442-007-AC and 0570442-014-AC]

Blasting Operation

C.30. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year.
[Rules 62-4.160(2) and 62-210.200(228), F.A.C.]

C.31. Only diesel fuel, no used or waste oils, shall be burned in the diesel compressors.
[Rule 62-4.070(3), F.A.C.]

C.32. In order to ensure compliance with the emission limitations in Specific Condition Nos. C.35 and C.36., the following restrictions shall apply: [Rules 62-212.300(1)(d) and 62-4.070(3), F.A.C.; Construction Permit Nos. 0570442-010-AC, 0571312-001-AC, and 0570442-014-AC]

A) No more than 24,370 tons of abrasive grit shall be used facility-wide, including the blasting/coating booth, in any 12 consecutive month period.
B) No more than 473,040 gallons diesel fuel shall be used facility-wide in any 12 month period. Sulfur content of the fuel shall not exceed 0.05 percent by weight.
C) No more than 4 blasting nozzles shall be in use at any given time in the blasting/coating booth.

C.33. [Reserved.]

C.34. [Reserved.]

C.35. The permittee shall not cause, permit, or allow emissions of particulate matter in excess of 0.03 gr/dscf from the baghouse that controls the blasting operation in the new blasting/coating booth.
[Rule 62-296.712(2), F.A.C. and Construction Permit No. 0570442-014-AC]

C.36. The permittee shall not cause, permit, or allow visible emissions greater than 5 percent opacity from any opening of the new blasting/coating booth, or the exhaust from the baghouse controlling the blasting/coating booth. [Rule 62-296.712(2), F.A.C.]

C.37. During each federal fiscal year (October 1 - September 30), unless otherwise specified by rule, order, or permit, the permittee shall perform visible emissions tests for opacity on the following two points: 1) the exhaust of the baghouse controlling the blasting booth operations, and 2) the east side of the blasting booth (tarp enclosure). Particulate matter testing may be required if the EPC has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that the applicable standard is being violated. The permittee shall also perform a visible emission test on the blasting operation upon initial blasting with any new metallic slag that has been recognized by the EPC in accordance with Facility-Wide Condition FW6.
[Rules 62-297.310(7)(a)4., 62-297.310(7)(b), 62-297.620(4), and 62-4.070(3), F.A.C.; and Construction Permit No. 0570442-015-AC]

C.38. The permittee shall submit two copies of test data to the Air Management Division of the Environmental Protection Commission of Hillsborough County office within forty-five days of completing testing. The visible emission tests shall include testing at the point of highest observed opacity. Testing procedures shall be consistent with the requirements of Rule 62-297, F.A.C. [Rule 62-297.310(7)(a)4. and 62-4.070(3), F.A.C.]

C.39. Compliance with the emission limitations of Specific Condition Nos. C.35 and C.36 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. All EPA Method 9 observation periods shall be at least thirty (30) minutes in duration. The observation point for each blasting operation test shall be at the point of maximum opacity leaving the baghouse and the blasting/coating booth. 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 62-296.320(4)(b)4. and 62-4.070(3), F.A.C.]

C.40. The permittee shall notify the Air Compliance Section of the Environmental Protection Commission of Hillsborough County at least 15 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the contact person who will be responsible for coordinating and having such test conducted. [Rule 62-297.310(7)(a)9., F.A.C.]

C.41. Compliance testing shall be conducted with the source operating at capacity. Capacity is defined as 90-100% of rated capacity, meaning the uninterrupted operation of four abrasive blasting nozzles. If it is impracticable to test at capacity, then the source may be tested at less than capacity; in this case subsequent source operation is limited to 110% of the test load until a new test is conducted. Testing with only three blasting nozzles does not allow for operation with four nozzles until additional testing, which demonstrates compliance, to regain capacity is completed. 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 Environmental Protection Commission of Hillsborough County. Failure to submit the input rates and actual operating conditions, including the number of nozzles and the operating pressure to the line from the compressor that operated, may invalidate the test.
[Rules 62-4.070(3) and 62-297.310(2), F.A.C.]

C.42. The permittee shall operate and maintain a measuring device to determine the air pressure differential across the baghouse(s) within 10 percent accuracy. [Rule 62-4.070(3), F.A.C.]

C.43. The following reasonable precautions shall be taken to control the emissions of unconfined particulate matter associated with the abrasive blasting and to ensure compliance with Specific Condition Nos. C.32 through C.36:

A) Using only coal slag, steel shot, or metallic slag for abrasive blasting materials within the booth unless prior notification is provided (consistent with Facility-Wide Condition FW6) to the EPC to use another material, including any new type of metallic slag.
B) Using no spent abrasive material, except for steel shot used within a closed blasting system.
C) The curtain/tarp on the east side of the booth shall be closed during any active blasting operation in order to help prevent excess emissions from exiting the booth.
D) The curtain/tarp on the east side of the booth must have at least a 95% shade factor.
E) The exhaust system (baghouse) for the blasting operation shall be in operation at all times during active blasting of parts in the booth.
F) Requiring that all blasting operators be trained on procedures which minimize airborne emissions of blasting materials and instructed on the designed operation of the blasting booth and its control system. Records of training (when it was offered and who attended) shall be maintained and be made available for inspectors of the Environmental Protection Commission of Hillsborough County upon request.
G) Using only manual sweeping and vacuum systems to clean-up spent blasting materials. No blowers are permitted.
H) All miscellaneous metal parts to be blasted separate from the dry docks shall be placed within the blasting/coating booth (EU008) whenever practical. The small parts blasting/coating area may remain active after the new booth is installed, and may be used to process parts that cannot be accommodated in the new booth.
I) A visible emission check of the building and baghouse exhaust stack shall be performed during active blasting operations on any date that blasting occurs in the booth. If any emissions are observed, the permittee shall immediately conduct a 12-minute visible emission observation during active blasting using EPA Method 9 contained in 40 CFR 60, Appendix A to ensure compliance with the 5% opacity limit. If any emissions over 5% opacity are observed, the permittee shall initiate immediate corrective action to eliminate excessive visible emissions.

   In the event a certified observer is not on-site during blasting operations requiring an EPA Method 9 test, a back-up monitoring approach will be conducted as follows:

   (1) Inspection of the active blasting area to ensure it meets the criteria of complete enclosure when blasting and to confirm designed operation of the baghouse to capture and control emissions.
   (2) Inspection of all blasting equipment being used (blast nozzles, blasting pot, compressors, booth enclosure, etc.) for any obvious opacity related problems.

(3) An inspection log will be completed with notes on all corrective actions performed.

J) A weekly inspection of the blasting control system shall be conducted and recorded (if operated during the week) to ensure that the system is operating as designed.

[Rules 62-296.320(4)(c)2. and 62-4.070(3), F.A.C.; Construction Permit Nos. 0570442-007-AC, 0570442-014-AC, and 0570442-015-AC]

C.44. In order to provide reasonable assurance that the pollution control equipment are operated and maintained adequately, the permittee shall comply with the conditions of the *Appendix OM-1: Operation and Maintenance (O&M) Plan* for particulate matter control of Emission Unit No. 008, which is attached as part of this permit. [Rules 62-296.700 and 62-4.070(3), F.A.C.]

C.45. The permittee shall maintain monthly records on the amount of abrasive blasting material used in order to demonstrate compliance with Specific Condition No. C.32. A rolling 12 month total shall be kept as well.
[Rule 62-4.070(3), F.A.C.]

C.46. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

SECTION IV. APPENDICES.

The Following Appendices Are Enforceable Parts of This Permit:

Appendix A, Glossary.
Appendix D-1, 40 CFR Subpart II Definitions.
Appendix F-1, Flow Diagram of Compliance Procedures.
Appendix F-2, Example Monograph for Estimating the Maximum Allowable Thinning Ratio.
Appendix I, List of Insignificant Emissions Units and/or Activities.
Appendix NESHAP, Subpart A – General Provisions Applicability to Subpart II.
Appendix NESHAP, Subpart II.
Appendix OM-1: Operation and Maintenance (O&M) Plan.
Appendix RR, Facility-wide Reporting Requirements.
Appendix SS-1, Stack Sampling Facilities
Appendix TR, Facility-wide Testing Requirements.
Appendix TV, Title V General Conditions.
EPC Shipyard BMP.