



# Florida Department of Environmental Protection

Northeast District  
8800 Baymeadows Way West, Suite 100  
Jacksonville, Florida 32256

Rick Scott  
Governor

Carlos Lopez-Cantera  
Lt. Governor

Jonathan P. Steverson  
Secretary

## PERMITTEE

Department of the Navy  
P.O. Box 280112  
Jacksonville, FL 32228-0112

Air Permit No. 0310213-030-AC  
Permit Expires: March 1, 2017  
Air Construction Permit

Authorized Representative:  
W.R. McCall, Captain

U.S. Naval Station (NAVSTA),  
Mayport  
EU030 Dust Collector  
Replacement

## PROJECT

This is the final air construction permit, the applicant proposes the installation of a new dust collecting system to replace the existing (2) blast booth media dust collectors located at Building 2085, on Naval Station (NAVSTA) Mayport at Emission Unit 030. The proposed work will be conducted at the existing U.S. Naval Station (NAVSTA), Mayport facility, which is a National Security facility (Standard Industrial Classification No. 9711). The existing facility is located in Duval County at Old Mayport Road in Jacksonville, Florida. The UTM coordinates are Zone 17, 460.420 km East and 3361.610 km North.

This final permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions); and Section 4 (Appendices). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

## STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000) and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Department.

Executed in Jacksonville, Florida

A handwritten signature in blue ink that reads "Richard S. Rachal III".

Richard S. Rachal III, P.G.  
Permitting Program Administrator

## PERMIT

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### **FILING AND ACKNOWLEDGEMENT & CERTIFICATE OF SERVICE**

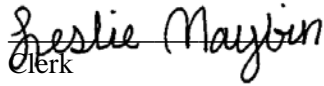
Filed on this date pursuant to § 120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged. The undersigned hereby certifies that this Final Air Permit package (including the Final Determination, Final Permit, and Technical Evaluation), and all copies were sent before the close of business on March 1, 2016 to the listed persons.

Captain W.R. McCall, United States Navy ([wesley.mccall@navy.mil](mailto:wesley.mccall@navy.mil))

Mr. Joseph Marshall, Environmental Engineer, Naval Station, Mayport ([joseph.r.marshall@navy.mil](mailto:joseph.r.marshall@navy.mil))

Melissa Vergenz, P.E., LG2 Environmental Solutions, Inc. ([mvergenz@lg2es.com](mailto:mvergenz@lg2es.com))

Ms. Cheryl Mitchell, Environmental Director, Naval Station, Mayport ([cheryl.mitchell@navy.mil](mailto:cheryl.mitchell@navy.mil))

  
Clerk

March 1, 2016  
Date

## SECTION 1. GENERAL INFORMATION

### FACILITY DESCRIPTION

#### Existing Facility

The Department of the Navy operates the U.S. Naval Station, Mayport as the homeport for surface combat ships and various support ships. Air pollution sources located at the base include both gas fired as well as fuel oil fired boilers and water heaters, emergency generators, miscellaneous fuel storage tanks, cold solvent degreasers, engine test stands, abrasive blasting operations, various surface coating operations (paint booths, open air painting, and ship painting) associated with infrastructure as well as with aircraft and ship maintenance.

The primary mission of the U.S. Naval Station, Mayport is to “sustain and enhance war fighter efforts” by providing the training of various Navy personnel. Of the several entities at the naval station, U.S. Naval Station, Mayport and the Naval Engineering Command Southeast (NAVFAC SE) are responsible for most of the permanent operations. NAVFAC SE is responsible for the operation and maintenance of their various boilers, emergency generators and associated fuel tanks; U.S. Naval Station, Mayport is responsible for the other equipment operations, including the activities of the Southeast Regional Maintenance Center (SERMC) and the various on-site contractors.

The existing facility consists of the following emissions units.

Facility ID No. 0310213	
ID No.	Emission Unit Description
001	Boiler No. 1, Bldg. 1241
002	Boiler No. 2, Bldg. 1241
003	Boiler No. 3, Bldg. 1241
015	SERMC Blast Booth, Bldg. 1488
022	Miscellaneous Surface Coating Operations
030	FRCSE Blast Booth No. 2, Bldg. 2085
031	Abrasive Blast Booth, Bldg. 1936
033	SERMC Abrasive Blast Booth No. 3, Bldg. 1488, Shop 71 A
034	Controlled Pyrolysis Cleaning Furnace (Burnout Oven), Bldg. 1488
035	16.33 MMBtu per hour Steam Boiler, Bldg. 1241
036	SERMC Abrasive Blast Booth No. 4, Bldg. 1488
037	Emergency Diesel Engine Generators (constructed prior to June 12, 2006)
038	Emergency Diesel Engine Generators (constructed after June 12, 2006)
039	Gasoline Dispensing Facilities > 100,000 Gallons per Month
040	Gasoline Dispensing Facilities < 10,000 Gallons per Month
041	Abrasive Blasting Room with associated dust collection system, Bldg. 2195 ( <i>Construction Permit No. 0310213-026-AC</i> )

## SECTION 1. GENERAL INFORMATION

### PROPOSED PROJECT

Air construction permit, which authorizes the installation of a new dust collecting system to replace the existing (2) blast booth media dust collectors located at Building 2085, on Naval Station (NAVSTA) Mayport at Emission Unit 030. The new dust collection system is replacing the old system due to the age of existing system.

This project will modify the following emissions units.

Facility ID No. 0310213	
ID No.	Emission Unit Description
030	FRCSE Blast Booth No. 2, Building 2085.

### FACILITY REGULATORY CLASSIFICATION

- The facility **is not** a major source of hazardous air pollutants (HAP).
- The facility **does not operate** units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility **is** a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility **is not** a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.
- This facility **does have** one or more emissions units subject to NSPS (40CFR 60).
- This facility **does have** one or more emissions units subject to NESHAP (40 CFR 61 or Part 63)

Pollutant Subject to Emissions Cap	Facility-Wide CAP [Y or N]? (all units)	Emissions Unit ID's Under CAP (if not all units)	Hourly CAP (lb/hr)	Annual CAP (ton/yr)	Basis for Emissions CAP
HAP (individual)	Y			< 9 tons/yr	other
HAPS (total)	Y			< 22.5 tons/yr	other

Facility is Synthetic Minor for HAPS. The above stated limits are conditions of the existing Title V air operating permit.

## SECTION 2. ADMINISTRATIVE REQUIREMENTS

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1. Permitting Authority: The permitting authority for this project is the Northeast District Office, Permitting Program, of the Florida Department of Environmental Protection (Department). The Northeast District Office's mailing address is 8800 Baymeadows Way West, Suite 100, Jacksonville, Florida 32256. All documents related to applications for permits to operate an emissions unit shall be submitted to the Northeast District Office, Permitting Program. The Permitting Authority's telephone number is (904) 256-1700.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Northeast District Office, Compliance Assurance at: 8800 Baymeadows Way West, Suite 100, Jacksonville, Florida 32256. The Compliance Authority's telephone number is (904) 256-1700.
3. Appendices: The following Appendices are attached as a part of this permit: Appendix A (Citation Formats and Glossary of Common Terms); Appendix B (General Conditions); Appendix C (Common Conditions); Appendix D (Common Testing Requirements), and Appendix LR (Local Rule Index).
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
6. Modifications: The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
7. Construction and Expiration: The expiration date shown on the first page of this permit provides time to complete the physical construction activities authorized by this permit, complete any necessary compliance testing, and obtain an operation permit. Notwithstanding this expiration date, all specific emissions limitations and operating requirements established by this permit shall remain in effect until the facility or emissions unit is permanently shut down. For good cause, the permittee may request that that a permit be extended. Pursuant to Rule 62-4.080(3), F.A.C., such a request shall be submitted to the Permitting Authority in writing before the permit expires. [Rules 62-4.070(3) & (4), 62-4.080 & 62-210.300(1), F.A.C.]
8. Source Obligation:
  - a. Authorization to construct shall expire if construction is not commenced within 18 months after receipt of the permit, if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time. This provision does not apply to the time period between construction of the approved phases of a phased construction project except that each phase must commence construction within 18 months of the commencement date established by the Department in the permit.
  - b. At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

## SECTION 2. ADMINISTRATIVE REQUIREMENTS

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- c. At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

[Rule 62-212.400(12), F.A.C.]

9. Application for Title V Permit: This permit authorizes construction of the permitted emissions units and initial operation to determine compliance with Department rules. A Title V air operation permit is required for regular operation of the permitted emissions unit. The permittee shall apply for a Title V air operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the appropriate Permitting Authority with copies to the Compliance Authority. [Rules 62-4.030, 62-4.050 and Chapter 62-213, F.A.C.]

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### SECTION 3. FACILITY-WIDE CONDITIONS

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1. Unconfined Emissions of 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) Paving and maintenance of roads, parking areas and yards.
  - (b) Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
  - (c) Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
  - (d) Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent re-entrainment, and from buildings or work areas to prevent particulate from becoming airborne.
  - (e) Landscaping or planting of vegetation.
  - (f) Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
  - (g) Confining abrasive blasting where possible.
  - (h) Enclosure or covering of conveyor systems.

In determining what constitutes reasonable precautions for a particular facility, the Department shall consider the cost of the control technique or work practice, the environmental impacts of the technique or practice and the degree of reduction of emissions expected from a particular technique or practice.

[Rule 62-296.320(4)(c), F.A.C.; Rule 2.1101, JEPB; Application No. 0310213-028-AC]

2. Objectionable Odors Prohibited: No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor.

*{Note: An objectionable odor is defined in Rule 62-210.200(Definitions), F.A.C., as 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), F.A.C.; Rule 2.1101, JEPB]

4. The facility shall be subject to the City of Jacksonville Ordinance Code, Title X, Chapter 360 [Environmental Regulation], Chapter 362 [Air and Water Pollution], Chapter 376 [Odor Control], and JEPB Rule 1 [Final Rules with Respect to Organization, Procedure, and Practice].
5. The facility shall be subject to JEPB Rule 2, Parts I through V, and Parts IX through XIII.

## SECTION 4. EMISSIONS UNIT SPECIFIC CONDITIONS

This section of the permit addresses the following emissions unit.

EU No.	Emission Unit Description
030	FRCSE Blast Booth No. 2, Building 2085.  <b>New:</b> Donaldson Torit Dust Collector, Model Type DFE 5-60 or equivalent

Emission Unit Description: Pauli systems dual-compartment abrasive blast booth using plastic media as an abrasive material. Sodium bicarbonate, corn starch, or other similar type material may also be used as an abrasive material

{This EU is subject to Rule 2.301, JEPB; Reasonably Available Control Technology (RACT) requirements including Specific RACT Emission Limiting Standards for Stationary Emissions Units [Rule 62-296.700(3), F.A.C. (Amended 7-10-14), and Rule 2.1101, JEPB]; Maximum Allowable Emission Rates [Rule 62-296.700(4), F.A.C., and Rule 2.1101, JEPB]; Circumvention [Rule 62-296.700(5), F.A.C., and Rule 2.1101, JEPB], and Operation and Maintenance Plan [Rule 62-296.700(6), F.A.C., and Rule 2.1101, JEPB]}

**F.1. Relation to Other Permits.** The conditions of this permit supplements all other previously issued air construction and operation permits for this emissions unit. These conditions are in addition to all other applicable permit conditions and regulatory requirements. The Permittee shall continue to comply with the conditions of those permits, which include restrictions and standards regarding capacities, production, operation, fuels, emissions, monitoring, recordkeeping, reporting, and the like.

[Rules 62-4.210, 62-4.070, and 62-210.300(1)(b), F.A.C.]

### EQUIPMENT

**F.2. Dust Collector.** The permittee is authorized to replace the existing (2) collection systems (dust collector) with a Donaldson Torit Dust Collector, Model Type DFE 5-60 or equivalent.

***This permit does not change any existing maximum throughput rates, nominal volumetric flow rates, hours of operation or emission standards for this EU030.***

This construction shall be in accordance with the application and associated documents provided to the Permitting Authority for the issuance of this permit. Any changes to the project that are contrary to these documents and permit shall be reported in writing to the Permitting Authority by the P.E. of Record.

[Application No. 0310213-030-AC]

### PERFORMANCE RESTRICTIONS

**F.3. Maximum Throughput.** Maximum abrasive blasting media usage is estimated at 2,995 tons per year (tons/yr).

[Rule 62-210.200(PTE), F.A.C., and Rule 2.301, JEPB]

**F.4. Flow Rate.** The nominal volumetric flow rate is estimated at 34,000 dscfm.

[Rule 62-210.200(PTE), F.A.C., and Rule 2.301, JEPB]

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## SECTION 4. EMISSIONS UNIT SPECIFIC CONDITIONS

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**F.5. Hours of Operation.** The hours of operation are not limited (8760 hours per year).

[Rule 62-210.200(PTE), F.A.C., and Rule 2.301, JEPB]

### EMISSIONS STANDARDS

**F.6. Particulate Matter (PM).** PM emissions shall not exceed 0.03 gr/dscf [8.74 lbs/hr and 38.29 TPY].

[Rule 62-296.712(2), F.A.C. (Amended 7-10-14), and Rule 2.1101, JEPB]

**F.7. Visible Emissions (VE).** VE shall not exceed 5% opacity.

[Rule 62-296.712(2), F.A.C., and Rule 2.1101, JEPB]

### TESTING REQUIREMENTS

**F.8. Initial Compliance Tests.** The emissions unit shall be tested to demonstrate initial compliance with the emissions standards for VE. The initial tests shall be conducted within 60 days after achieving permitted capacity, but not later than 180 days after initial operation of the unit with the new Dust Collector.

[Rules 62-4.070(3) and 62-297.310(8)(b)1, F.A.C.]

**F.9. Annual Compliance VE Tests.** During each calendar year (January 1<sup>st</sup> to December 31<sup>st</sup>), the emissions unit shall be tested to demonstrate compliance with the emissions standards for VE. VE testing shall be conducted for a minimum period of 30 minutes.

[Rule 62-297.310(8)(a)1, F.A.C.]

**F.10. VE Tests.** Testing for demonstration of compliance shall be performed in accordance with EPA RM 9 (as described in 40 CFR 60, Appendix A) for the visual determination of opacity.

[Rule 62-296.712(3)(a), F.A.C., Rule 62-297.310(5)(b), F.A.C., and Rule 2.1101, JEPB]

**F.11. (PM) Test.** PM testing shall be conducted upon request of the Permitting Authority. Testing for demonstration of compliance shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A), for the determination of the PM emission rate. The minimum sample volume shall be 30 dry standard cubic feet. A visible emissions test indicating no visible emissions (5 percent opacity) may be submitted in lieu of a particular stack test for materials handling emissions subject to this rule, where the emissions unit is equipped with a baghouse.

[Rule 62-296.712(3)(b), (c), F.A.C., Rule 62-297.310(8)(c), F.A.C., and Rule 2.1101, JEPB]

The above testing methods are described in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department.

[Rules 62-204.800, F.A.C.; and Appendix A of 40 CFR 60]

### RECORDS AND REPORTS

**F.12. Test Reports.** The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. For each test run, the report shall also indicate the maximum abrasive blasting media throughput, and the nominal volumetric flow rate of the dust collector.

[Rule 62-297.310(10), F.A.C.]

#### SECTION 4. EMISSIONS UNIT SPECIFIC CONDITIONS

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**F.13. Operation and Maintenance Plan.** An Operation and Maintenance Plan (O and M Plan) is attached and shall be part of this permit. All activities shall be performed as scheduled and recorded. Data shall be made available to the Permitting Authority upon request. Records shall be maintained on file for a minimum period of two (2) years.

[Rule 62-296.700(6)(a)2, (b), (e), F.A.C., and Rule 2.1101, JEPB]

**F.14.** This Facility is subject to SECTION 2. Administrative Requirements of this permit and also, the attached Combined Appendices.

**F.15. Circumvention.** No owner or operator of an emissions unit subject to the requirements of Rules 62-296.712, F.A.C., establishing maximum concentrations of emissions of particulate matter in the exhaust gas from the emissions unit shall circumvent the provisions of an applicable emission limitation by increasing the volume of gas in any exhaust or group of exhausts for the purpose of reducing the stack gas concentration. This includes allowing dilution air to enter the system through leaks, open vents, or similar means.

**F.16. Commencement of Construction and Operation.** After the new dust collector for EU030 has been replaced, the permittee shall submit to the Air Compliance Authority of this Office written notification of the date of commencement of construction **and** operation of the new dust collector to Christopher L. Kirts [christopher.kirts@dep.state.fl.us](mailto:christopher.kirts@dep.state.fl.us). This notification shall be submitted or postmarked within as many days prior to the date of construction and operation commencement as practical, but no later than fifteen (15) business day following commencement of construction and operation.

[Rule 62-4.070(3), F.A.C.]