# Florida Department of Environmental Protection

Northwest District
160 W. Government Street, Suite 308
Pensacola, Florida 32502-5740

Rick Scott
Governor

Herschel T. Vinyard, Jr.
Secretary


May 30, 2013

*Sent by Electronic Mail – Received Receipt Requested*
brian.stumpe@tyndall.af.mil

**PERMITTEE**

United States Air Force
Tyndall Air Force Base
119 Alabama Avenue, Stop 42
Tyndall Air Force Base, Florida 32403-5014

Authorized Representative:
Lieutenant Colonel Brian M. Stumpe, USAF

Air Permit No. 0050024-013-AC
Permit Expires: May 30, 2018

Tyndall Air Force Base
Minor Source Air Construction Permit
Two New Paint Booths

This is the final air construction permit, which authorizes construction of two Low Observable/Composite Repair (LO/CR) Paint Booths. The proposed work will be conducted at Tyndall Air Force Base, which is a National Security Facility (Standard Industrial Classification No. 9711). The facility is located approximately five miles southeast of Panama City, Florida. The UTM coordinates of the existing facility are Zone 16, 635.89 km East, and 3327.25 km North (Latitude: 30° 03' 21", Longitude: 85° 35' 31"). As noted in the Final Determination provided with this final permit, no changes were made to the draft permit.

This final permit is organized by the following sections.

Section 1. General Information

Section 2. Administrative Requirements

Section 3. Emissions Unit Specific Conditions

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.

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 Pensacola, Florida

/S/

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J. Charles Harp
Program Administrator
Waste Management/Air Resources
Northwest District

## CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination and Final Permit) was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on May 30, 2013 to the persons listed below.

Lt. Colonel Brian M. Stumpe, Tyndall AFB, brian.stumpe@tyndall.af.mil
Sandra Howard, Tyndall AFB, sandra.howard@tyndall.af.mil
Jerry Bauer, Burns & McDonnell Engineering Company, jbauer@burnsmcd.com
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Mark Sumner, DEP Northwest District Branch Office, Panama City, Mark.C.Sumner@dep.state.fl.us

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

___/S/_____ May 30, 2013
Clerk Date

## FACILITY AND PROJECT DESCRIPTION

### Existing Facility

This facility consists of activities and operations related to national security, including surface preparation and coating; gas, diesel and jet fuel (JP-8) storage tanks; fuel transfers; jet engine testing; and fossil fuel boilers.

| Facility ID No. 0050024 | |
|---|---|
| **ID No.** | **Emission Unit Description** |
| 010 | Paint Booths |
| 011 | Fuel Fill Stands |
| 013 | Jet Engine Testing |
| 015 | NSPS Tanks |
| 016 | Boilers |

### Proposed Project

This project is to construct two Low Observable/Composite Repair (LO/CR) paint booths, identified as 280-PB1 and 280-PB2, in Hanger 4. Each Paint Booth has a 1.2 MMBtu/hr direct-fired reheat burner using natural gas. The burners are part of a make-up air unit consisting of an electric preheat coil, chilled water coil section, a direct-fired reheat burner section, a humidified section and a supply fan section. This project will modify the following emissions units.

| Facility ID No. 0050024 | |
|---|---|
| **ID No.** | **Emission Unit Description** |
| 010 | Paint Booths |
| 016 | External Combustion Equipment using natural gas or propane (this EU was previously named “Boilers” but now includes the new paint booths’ direct-fired reheat burners) |

## FACILITY REGULATORY CLASSIFICATION

- The facility is not a major source of hazardous air pollutants (HAP).
- The facility has no units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is not a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is not a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

## SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Northwest District Waste Management/Air Resources Program, Florida Department of Environmental Protection (Department). The District's mailing address is 160 W Government Street, Suite 308, Pensacola, Florida 32502-5740. All documents related to applications for permits to operate an emissions unit shall be submitted to the District Office.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the District Office at the above address or nwdair@dep.state.fl.us.

3. Appendices: The following Appendices are attached as part of this permit:

   a. Appendix A. Citation Formats and Glossary of Common Terms;

   b. Appendix B. General Conditions;

   c. Appendix C. Common Conditions; and

   d. Appendix D. Common Testing Requirements.

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, 62-296 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. Asbestos: This permit does not authorize any demolition or renovation of the facility or its parts or components which involves asbestos removal. This permit does not constitute a waiver of any of the requirements of Chapter 62-257, F.A.C., and 40 CFR 61, Subpart M, National Emission Standard for Asbestos, adopted and incorporated by reference in Rule 62-204.800, F.A.C. Compliance with Chapter 62-257, F.A.C., and 40 CFR 61, Subpart M, Section 61.145, is required for any asbestos demolition or renovation at the source. [40 CFR 61; Rule 62-204.800, F.A.C.; and, Chapter 62-257, F.A.C.]

6. 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.]

7. Modifications: The permittee shall notify the Compliance Authority upon commencement of construction. Notification may be submitted by electronic mail to epost_nwdwasteair@dep.state.fl.us. and copied to the compliance authority at nwdair@dep.state.fl.us. 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.]

8. Source Obligation:

   (a) 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.

(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 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.]

## A. EU 010, Paint Booths

This section of the permit addresses the following emissions unit

| ID No. | Emissions Unit Description |
|---|---|
| 010 | Paint Booths |

This emissions unit is comprised of nine existing paint booths (156-PB1, 295-PB1, 295-PB2, 315-PB1, 315-PB2, 560-PB1, 934-PB1, 1134-PB1, and 9710-PB1).

This project is to construct two Low Observable/Composite Repair (LO/CR) Paint Booths, identified as 280-PB1 and 280-PB2 in Hangar 4. Each paint booth has a 1.2 MMBtu/hr direct fired reheat burner using natural gas. The burners are part of make-up air units consisting of an electric preheat coil, chilled water coil section, a direct-fired reheat burner section, a humidified section and a supply fan section. Particulate matter emissions for these paint booths are controlled by filters, while VOC emissions are emitted uncontrolled. Total VOC emissions are subject to a facility-wide limit.

These emissions units are not regulated by any emissions unit specific requirements. Rule 62-296.320(4)(b)1, F.A.C. - General Visible Emissions Standard, and Rule 62-296.320(1)(a), F.A.C. - General Pollutant Emission Limiting Standards for Volatile Organic Compounds (VOC) Emissions and Organic Solvents Emissions, are applicable.

**The following specific conditions apply to the emissions unit(s) listed above:**

1. Previous Permits: This permit supplements all previously issued air construction and operation permits for this emissions unit. Except for the change noted below, the unit remains subject to the conditions of all other legally binding air construction and operating permits. [Rules 62-4.070(3) and 62-210.300(1), F.A.C.]
2. New Equipment: Except for the change noted below, the new equipment authorized by this permit shall be subject to the same requirements, such as, but not limited to; emissions standards, recordkeeping, compliance testing and fuels limitations previously established for this emissions unit in all other legally binding air construction and operating permits. [Rules 62-4.070(3) and 62-210.300(1), F.A.C.]

### EQUIPMENT

3. Two LO/CR Paint Booths: The permittee is authorized to construct two Low Observable/Composite Repair (LO/CR) Paint Booths, identified as 280-PB1 and 280-PB2 in Hangar 4 and associated equipment. [Application No. 0050024-013-AC]

### PERFORMANCE RESTRICTIONS

4. Restricted Operation: The hours of operation are not limited (8760 hours per year). [Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

### TESTING REQUIREMENTS

5. Initial Compliance Tests: Paint Booths 280-PB1 and 280-PB2 shall be tested to demonstrate initial compliance with the emissions standards contained in Appendix C, General Visible Emissions, of this permit. 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. Notification of compliance testing and completed test

reports may be submitted by electronic mail to nwdair@dep.state.fl.us. [Rules 62-4.070(3) and 62-297.310(7)(a)1., F.A.C.]

6. The 5-Year Renewal Visible Emissions Compliance Testing requirement for Emissions Unit 010 is hereby removed. [Rules 62-4.070(3) and 62-297.310(7)(a)4., F.A.C., and Application No. 0050024-013-AC]

7. Test Requirements: The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. Notification may be sent via e-mail to nwdair@dep.state.fl.us. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(7)(a)9, F.A.C.]

8. Test Methods: Required tests shall be performed in accordance with the following reference methods.

| Method | Description of Method and Comments |
|---|---|
| 9 | Visual Determination of the Opacity of Emissions from Stationary Sources |

The above methods are described in Appendix A of 40 CFR 60 and are adopted by reference in Rules 62-204.800 and 62-297.401, F.A.C. The tests conducted using EPA Method 9 shall be for 30 minutes or for the duration of a batch mode, whichever is less. No other methods may be used unless prior written approval is received from the Department. [Rules 62-204.800 and 62-297.401(9), F.A.C.; and Appendix A of 40 CFR 60]

## RECORDS AND REPORTS

9. Recordkeeping shall include maintaining a logbook to document significant pollution control equipment failures, repair actions, and routine maintenance of each booth (i.e., replacement filters, etc.). These records shall be made available to the Department upon request and shall be maintained for at least five years from the date of recording. [Rule 62-4.070(3), F.A.C.]

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

## B. EU 016 External Combustion Equipment

This section of the permit addresses the following emissions unit.

| ID No. | Emissions Unit Description |
|---|---|
| 016 | External Combustion Equipment using natural gas or propane (this EU previously named "Boilers" but now includes the new paint booths' direct-fired reheat burners) |

This emissions unit contains the following 32 natural gas fueled boilers with maximum heat input rates ranging from 1.0 to 10.5 MMBtu/hr: 1690, 1601, 1550, 1465-1, 1465-2, 1281, 1214, 1153, 1120, 1117, 950, 817, 659, 649-1, 649-2, 561-1, 522, 482-2, 481-1, 421-1, 315-1, 315-2, 315-3, 295, 280, 258, 256, 227, 182-1, 182-2, 180-1, 180-2. This emissions unit also includes propane-fueled boilers 9490 and 3029.

This project for two Low Observable/Composite Repair (LO/CR) Paint Booths, adds two direct-fired reheat burners, identified as 280-PB1 and 280-PB2 in Hangar 4. The burners are part of a make-up air unit consisting of an electric preheat coil, chilled water coil section, a direct-fired reheat burner section, a humidified section and a supply fan section. The direct-fired reheat burners use natural gas, each have a maximum heat input rate of 1.2 MMBtu/hr, and are identified as 280-PB1 Burner and 280-PB2 Burner. The burners are not subject to any unit specific requirements. The emissions unit description for EU 016 is changed from "Boilers" to "External Combustion Equipment using natural gas".

**The following specific conditions apply to the emissions unit(s) listed above:**

1. Previous Permits: This permit supplements all previously issued air construction and operation permits for this emissions unit. Except for the change noted below, the unit remains subject to the conditions of all other legally binding air construction and operating permits. [Rules 62-4.070(3) and 62-210.300(1), F.A.C.]

2. New Equipment: Except for the change noted below, the new equipment authorized by this permit shall be subject to the same requirements, such as, but not limited to; emissions standards, recordkeeping, compliance testing and fuels limitations previously established for this emissions unit in all other legally binding air construction and operating permits. [Rules 62-4.070(3) and 62-210.300(1), F.A.C.]

### EQUIPMENT

3. 280-PB1 Burner and 280-PB2 Burner: The permittee is authorized to install the 280-PB1 Burner and 280-PB2 Burner, and associated equipment, in the two Low Observable/Composite Repair (LO/CR) Paint Booths, identified as 280-PB1 and 280-PB2 in Hangar 4. [Application No. 0050024-013-AC]

### PERFORMANCE RESTRICTIONS

4. Restricted Operation: The hours of operation are not limited (8760 hours per year). [Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

5. Authorized Fuel: 280-PB1 Burner and 280-PB2 Burner shall be fueled by natural gas. [Application No. 0050024-013-AC and Rule 62-210.200(PTE), F.A.C.]

### RECORDS AND REPORTS

6. Operational Data: Records shall be maintained on a quarterly basis of the total quantity of fuel usage for all boilers equal to or greater than 1 MMBtu per hour and for the 280-PB1 Burner and 280-PB2 Burner. This information will be the basis for calculating emissions. This information shall be available to the Department upon request no later than 40 days from the end of each quarter. Recordkeeping shall recommence at the start of each year. [Rule 62-4.070(3), F.A.C.]