



Florida Department of Environmental Protection

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

Electronically Sent- Received Receipt Requested

Anthony J. Cotton, Brigadier General, USAF, Commander
U.S. Air Force – Patrick Air Force Base
45 SW/CC, 1201 Edward H. White II Street
Patrick AFB, Florida 32925-3299

Re: Project No. 0090021-009-AC
Patrick Air Force Base (PAFB)
Major Source Air Construction Permit
Project: Vapor Recovery System

Dear Brigadier General Anthony J. Cotton:

On August 09, 2011, an application was submitted requesting modification to Emissions Unit No. 032 (gasoline storage tanks) with the installation of a Stage I Vapor Recovery System. A modification was requested also to the E-85 storage tank (listed under insignificant emissions units because tank size is less than 25,000 gallons) with the installation of vapor recovery lines. This facility is located in Brevard County at 45 CES/CEAN, 1224 Jupiter Street, MS 9125 in Patrick Air Force Base, Florida. Enclosed are the following documents: the Technical Evaluation and Preliminary Determination; the Draft Permit and Appendices; the Written Notice of Intent to Issue Air Permit; and the Public Notice of Intent to Issue Air Permit. The Public Notice of Intent to Issue Air Permit is the actual notice that you must have published in the legal advertisement section of a newspaper of general circulation in the area affected by this project. If you have any questions, please contact the project engineer, Ms. Natrevia Gradney, at 407-897-2933.

Sincerely,

Caroline D. Shine
District Air Program Administrator
Central District

Enclosures

CDS/ng/ta

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

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

U.S. Air Force - Patrick Air Force Base
45 SW/CC, 1201 Edward H. White II Street
Patrick AFB, Florida 32925-3299

Project No. 0090021-009-AC
Major Source Air Construction
Permit
Brevard County, Florida

Authorized Representative:
Anthony J. Cotton, Brigadier General, USAF,
Commander

Patrick Air Force Base (PAFB)
Project: Vapor Recovery System

Facility Location: U.S. Air Force - Patrick Air Force Base operates the existing PAFB, which is located in Brevard County at 45 CES/CEAN, 1224 Jupiter Street, MS 9125 in Patrick Air Force Base, Florida.

Project: The applicant proposes to modify EU ID No. 032 (two gasoline storage tanks) with the installation of a Stage I Vapor Recovery System. This project also includes the installation of vapor recovery lines for the E-85 storage tank. Details of the project are provided in the application and the enclosed Technical Evaluation and Preliminary Determination.

Permitting Authority: Applications for air construction and operation permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Permitting Authority responsible for making a permit determination for this project is the Department of Environmental Protection's Air Resource Management Section in the Central District Office. The Permitting Authority's physical address is: 3319 Maguire Blvd., Ste. 232, Orlando, Florida 32803-3767. The Permitting Authority's mailing address is: 3319 Maguire Blvd., Ste. 232, Orlando, Florida 32803-3767. The Permitting Authority's telephone number is 407/893-3334.

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

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

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

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

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

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000 (Telephone: 850/245-2241). Petitions filed by the applicant or any of the parties listed below must be filed within 14 days of receipt of this Written Notice of Intent to Issue Air Permit. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the attached Public Notice or within 14 days of receipt of this Written Notice of Intent to Issue Air Permit, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner; the name, address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of when and how each petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so state; (e) A concise statement of the ultimate facts alleged,

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

Florida Department of Environmental Protection
Air Resource Management, Central District Office
Draft Major Source Air Construction Permit
Project No. 0090021-009-AC

U.S. Air Force – Patrick Air Force Base, Patrick Air Force Base (PAFB)
Brevard County, Florida

Applicant: The applicant for this project is U.S. Air Force – Patrick Air Force Base. The applicant's authorized representative and mailing address is:

Anthony J. Cotton, Brigadier General, USAF, Commander
U.S. Air Force – Patrick Air Force Base, Patrick Air Force Base (PAFB)
45 CES/CEAN, 11224 Jupiter Street, MS 9125
Patrick Air Force Base, Florida 32925-3343

Facility Location: U.S. Air Force – Patrick Air Force Base operates the existing PAFB, which is located in Brevard County at 45 CES/CEAN, 1224 Jupiter Street, MS 9125 in Patrick Air Force Base, Florida.

Project: This project is for the installation of a Stage I Vapor Recovery System for the PAFB Fuels gasoline dispensing operations (Emission Unit ID No. 032 – two gasoline storage tanks). This project also includes the installation of vapor recovery lines for the E-85 storage tank.

Permitting Authority: Applications for air construction and operation permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210 and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Permitting Authority responsible for making a permit determination for this project is the Department of Environmental Protection's Air Resource Management Section in the Central District Office. The Permitting Authority's physical address is: 3319 Maguire Blvd., Ste. 232, Orlando, FL 32803-3767. The Permitting Authority's mailing address is: 3319 Maguire Blvd., Ste. 232, Orlando, FL 32803-3767. The Permitting Authority's telephone number is 407/897-2933.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at the physical address indicated above for the Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application and information submitted by the applicant (exclusive of confidential records under Section 403.111, F.S.). Interested persons may contact the Permitting Authority's project engineer for additional information at the address and phone number listed above. In addition, electronic copies of these documents are available on the following web site:
<http://www.dep.state.fl.us/air/emission/apds/default.asp>.

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

public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

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

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000 (Telephone: 850/245-2241). Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within 14 days of publication of this Public Notice or receipt of a written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address and telephone number of the petitioner; the name address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial rights will be affected by the agency determination; (c) A statement of when and how the petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so state; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Public Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance

with the requirements set forth above.

Mediation: Mediation is not available for this proceeding.



**TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION**

APPLICANT

U.S. Air Force – Patrick Air Force Base
45 SW/CC, 1201 Edward H. White II Street
Patrick AFB, Florida 32925-3299

Patrick Air Force Base

Facility ID No. 0090021

PROJECT

Project No. 0090021-009-AC
Application for Major Source Air Construction Permit
Project Name: Vapor Recovery System

COUNTY

Brevard County, Florida

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Air Resource Management
Central District Office
3319 Maguire Blvd., Ste. 232, Orlando, FL 32803-3767

August 22, 2011

Prepared by Natrevia Gradney

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

GENERAL PROJECT INFORMATION

Air Pollution Regulations

Projects at stationary sources with the potential to emit air pollution are subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The statutes authorize the Department of Environmental Protection (Department) to establish regulations regarding air quality as part of the Florida Administrative Code (F.A.C.), which includes the following applicable chapters: 62-4 (Permits); 62-204 (Air Pollution Control - General Provisions); 62-210 (Stationary Sources - General Requirements); 62-212 (Stationary Sources - Preconstruction Review); 62-213 (Operation Permits for Major Sources of Air Pollution); 62-296 (Stationary Sources - Emission Standards); and 62-297 (Stationary Sources - Emissions Monitoring). Specifically, air construction permits are required pursuant to Rules 62-4, 62-210 and 62-212, F.A.C.

In addition, the U. S. Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of Federal Regulations (CFR). Part 60 specifies New Source Performance Standards (NSPS) for numerous industrial categories. Part 61 specifies National Emission Standards for Hazardous Air Pollutants (NESHAP) based on specific pollutants. Part 63 specifies NESHAP based on the Maximum Achievable Control Technology (MACT) for numerous industrial categories. The Department adopts these federal regulations on a quarterly basis in Rule 62-204.800, F.A.C.

Glossary of Common Terms

Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of this permit.

I. Project Description:

A. Applicant:

Anthony J. Cotton, Brigadier General, USAF, Commander
U.S. Air Force - Patrick Air Force Base
45 SW/CC, 1201 Edward H. White II Street
Patrick AFB, Florida 32925-3299

B. Professional Engineer:

Dr. Mitchell Jay Hait
Mitchell J. Hait, Ph.D, P.E., Inc.
404 Sebastian Square
St. Augustine, Florida 32095

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

C. Project Location:

Patrick Air Force Base
 45 CES/CEAN 1224 Jupiter Street, MS 9125
 Patrick AFB, Florida 32925-3343

D. Project Summary:

This project authorizes modification of Emissions Unit No. 032 with the installation of a Stage I Vapor Recovery System and modification of the E-85 storage tank (listed under insignificant emissions units because tank size is less than 25,000 gallons) with the installation of vapor recovery line, as further described in the permit.

E. Application Information:

Application Received on: 08/09/2011
 Additional Information Requested on: N/A
 Additional Information Received on: N/A
 Application Complete: 08/09/2011

II. Rule Applicability

This project is subject to the preconstruction review requirements of Chapter 403, Florida Statutes and Chapters 62-204 through 62-297, Florida Administrative Code (F.A.C.), as indicated below.

| Subject to: | Y/N | Comments |
|--|-----|---|
| Rule 62-210.300, F.A.C. - Project Not Subject to Prevention of Significant Deterioration or Nonattainment Requirements, F.A.C. | Y | Not exempt from general permitting requirements. |
| Rule 62-212.400, F.A.C. - Prevention of Significant Deterioration | N | Facility is not a PSD major source. |
| Rule 62-296.320(4), F.A.C. - General Particulate Emission Limiting Standards | Y | Unconfined particulate matter emissions from vehicular traffic on paved and unpaved roads; and construction activities. |
| Rules 62-296.320(1) and (2), F.A.C. - General Pollutant Emission Limiting Standards (VOCs and Odor) | Y | Gasoline dispensing operations are a source of VOC and odors. |
| Rule 62-296.400, F.A.C. - Stationary Source Emission Standards | N | There is no applicable source category. |
| Rule 62-296.500, F.A.C. - Reasonably Available Control Technology (VOC) | N | Brevard County is an attainment area for ozone. |

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

| Subject to: | Y/N | Comments |
|---|-----|--|
| Rule 62-296.700, F.A.C. - Reasonably Available Control Technology (PM) | N | There is no applicable source category. |
| Rule 62-204.800, F.A.C. - Standards of Performance for New Stationary Sources (NSPS) | N | There is no applicable source category for this project. |
| Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants (NESHAPS - 40 CFR 61) | N | There is no applicable source category. |
| Rule 62-204.800, F.A.C. National Emission Standard for Hazardous Air Pollutants for Source Categories a.k.a. MACT (NESHAPS - 40 CFR 63) | Y | EU No. 032 is subject to 40 CFR 63, Subpart A and 40 CFR 63, Subpart CCCCC. |
| Chapter 62-213, F.A.C. - Operation Permits for Major Sources of Air Pollution | Y | Facility is a major Title V source. |
| Rule 62-297.310, F.A.C. - General Compliance Test Requirements, F.A.C. | Y | Initial performance testing to determine reduction efficiency is required for the vapor recovery system. |
| Rule 62-252, F.A.C. Gasoline Dispensing Facilities - Stage I Vapor Recovery | Y | Emissions Unit No. 032 is subject to Rule 62-252, F.A.C. |

III. Summary of Emissions

| Pollutant | EU No. and brief description | Potential Emissions (tpy) | Allowable Emissions (tpy) |
|-----------|--|---------------------------|---------------------------|
| Total VOC | 032 - Two Gasoline (including ethanol/gasoline blends) Storage Tanks (PASMOG1) | 3.74 | |
| | Total | 3.74* | 12.0 |
| Total HAP | 032 - Two Gasoline (including ethanol/gasoline blends) Storage Tanks (PASMOG1) | 0.16 | |
| | Total | 0.16* | |

**Note: Calculations are based on 98.7 percent reduction efficiency of the vapor recovery system being installed.*

IV. Federal NSPS and/or NESHAP Provisions

- A. 40 CFR 63, Subpart A - General Provisions
- B. 40 CFR 63, NESHAP Subpart CCCCC, Gasoline Dispensing Facilities.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

V. Conclusions

The emission limits proposed by the applicant will meet all of the requirements of Chapters 62-204 through 297, F.A.C.

The General and Specific Conditions listed in the proposed permit (attached) will assure compliance with all the applicable requirements of Chapters 62-204 through 297, F.A.C.

VI. Preliminary Determination

The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the draft permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the draft permit. Additional details of this analysis may be obtained by contacting the project engineer at the Florida Department of Environmental Protection Air Resource Management, Central District, 3319 Maguire Blvd., Ste. 232, Orlando, FL 32803-3767.

Pursuant to Section 403.087, Florida Statutes and Section 62-4.070, Florida Administrative Code, the Department hereby gives notice of its intent to issue a permit to construct the aforementioned air pollution source in accordance with the draft permit and its conditions as stipulated (see attached).



Florida Department of Environmental Protection

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

Electronically Sent- Received Receipt Requested

DRAFT PERMIT

PERMITTEE

U.S. Air Force – Patrick Air Force Base
45 SW/CC, 1201 Edward H. White II Street
Patrick AFB, Florida 32925-3299

Authorized Representative:
Anthony J. Cotton, Brigadier General, USAF, Commander

Air Permit No. 0090021-009-AC
Permit Expires: 12/30/2012
Site Name : Patrick Air Force Base
(PAFB)
Major Source Air Construction
Project Name: Vapor Recovery
System

This final air construction permit authorizes modification of Emissions Unit No. 032 with the installation of a Stage I Vapor Recovery System and modification of the E-85 storage tank (listed under insignificant emissions units because tank size is less than 25,000 gallons) with the installation of vapor recovery lines. The proposed work will be conducted at the PAFB fuel storage facility (Standard Industrial Classification No. 9711), located in Brevard County at 45 CES/CEAN, 1224 Jupiter Street, MS 9125 in Patrick Air Force Base, Florida. The UTM coordinates are Zone 17, 538.85 km East, and 3125.26 km North.

This final permit is organized by the following sections:

- Section 1. General Information
- Section 2. Administrative Requirements
- Section 3. Facility-wide and 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 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 Orange County, Florida

DRAFT

Caroline D. Shine Effective Date
District Air Program Administrator
Central District

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination, the Final Permit and the Appendices) 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 _____ to the persons listed below.

- Brig Gen Anthony J. Cotton, PAFB (45swcce@patrick.af.mil)
- Ms. Kim K. Scroggs, PAFB (kim.scroggs@patrick.af.mil)
- Dr. Mitchell Jay Hait, P.E., Mitchell J. Hait, Ph.D., P.E., Inc. (haitinc@gmail.com)
- Ms. Ana Oquendo, EPA Region 4 (oquendo.ana@epamail.epa.gov)
- Ms. Barbara Friday, DEP BAR (barbara.friday@dep.state.fl.us) (for posting with U.S. EPA, Region 4)

Clerk Stamp

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

DRAFT

(Clerk) (Date)

SECTION 1. GENERAL INFORMATION (DRAFT)

FACILITY AND PROJECT DESCRIPTION

Patrick Air Force Base

Patrick Air Force Base is a military facility that contains steam boilers, surface coating operations equipped with dry filters, a blast booth, and petroleum storage tanks.

The existing facility consists of the following emissions units.

| Facility ID No. 0090021 | |
|-------------------------|--|
| ID No. | Emission Unit Description |
| 002 | Bldg. 314 (P314EC1), Boiler No. 1, Central Heat Plant |
| 003 | Bldg. 314 (P314EC2), Boiler No. 2, Central Heat Plant |
| 018 | Bldg. 1380 (P1380EC1), Boiler No. 1 |
| 019 | Bldg. 1380 (P1380EC2), Boiler No. 2 |
| 032 | Two Gasoline Storage Tanks |
| 036 | Bldg. 511 (P511PB1), Spray Booth No. 1 |
| 037 | Bldg. 511 (P511PB2), Spray Booth No. 2 |
| 039 | Bldg. 630 (P630PB1), Spray Booth No. 4 |
| 040 | Bldg. 331 (P331PB1), Spray Booth No. 5 |
| 041 | Bldg. 313 (P313PB1), Spray Booth No. 6 |
| 043 | Eleven Jet Fuel Storage Tanks (PASJP1); Six Diesel/Biodiesel Storage Tanks (PASDJP1) |
| 054 | Bldg. 313, DLM Spray Booth |
| 055 | Bldg. 313, Abrasive Blast Booth |

Project Description and Affected Emission Unit

This project involves the installation of a Stage I Vapor Recovery System for the PAFB Fuels gasoline dispensing operations (EU ID No. 032) including a vapor return line connected between the storage tank and the gasoline dispensing truck. This project also includes the installation of vapor recovery lines for the E-85 storage tank (listed under insignificant emissions units in the facility's Title V air operation permit because tank size is less than 25,000 gallons).

This project will modify the following emissions unit.

| Facility ID No. 0090021 | |
|-------------------------|----------------------------|
| ID No. | Emission Unit Description |
| 032 | Two Gasoline Storage Tanks |

NOTE: Please reference the Permit No., Facility ID, and Emission Unit ID in all correspondence, test report submittals, applications, etc.

SECTION 1. GENERAL INFORMATION (DRAFT)

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 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.

PERMIT HISTORY/AFFECTED PERMITS

New Construction Permit for vapor recovery project.

SECTION 2. ADMINISTRATIVE REQUIREMENTS (DRAFT)

1. Permitting Authority: The permitting authority for this project is the Florida Department of Environmental Protection, Central District Air Resource Management Section. The Central District's mailing address and phone number is:

Florida Department of Environmental Protection
Central District Office
Air Resource Management Section
3319 Maguire Blvd., Ste. 232
Orlando, FL 32803-3767 Telephone: 407-897-2931

All documents related to applications for permits shall be submitted to the above address.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Central District Air Resource Management Section (see above mailing address and phone number).
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;
 - d. Appendix D. Common Testing Requirements;
 - e. Appendix E. 40 CFR 63, Subpart A – General Requirements; and
 - f. Appendix F. 40 CFR 63, Subpart CCCCCC- Gasoline Dispensing Facilities.
 - g. Appendix G. California Air Resource Board Vapor Recovery Test Procedure TP-201.1E
 - h. Appendix H. California Air Resource Board Vapor Recovery Test Procedure TP-201.3
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, 62-252, 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: Unless otherwise exempt by rule, the permittee shall not initiate any construction, reconstruction, or modification at the facility and shall not install/modify any pollution control device at the facility without obtaining prior authorization from the Department. Modification is defined as: Any physical change or changes in the method of operations or addition to a facility that would result in an increase in the actual emissions of any air pollutant subject to air regulations, including any not previously emitted, from any emission unit or facility.
[Rules 62-210.200 - Definition of "Modification" and 62-210.300(1)(a), F.A.C.]

SECTION 2. ADMINISTRATIVE REQUIREMENTS (DRAFT)

7. Annual Operating Report: On or before April 1 of each year, the permittee shall submit a completed DEP Form 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility" (AOR) for the preceding calendar year. The report may be submitted electronically in accordance with the instructions received with the AOR package sent by the Department, or a hardcopy may be sent to the Compliance Authority.
[Rule 62-210.370(3), F.A.C.]

8. Application for Title V Air Operation Permit Revision: This permit authorizes construction or modification of the permitted emissions unit(s) and initial operation to determine compliance with Department rules. A Title V air operation permit revision is required for continued operation of the permitted emissions unit(s). The permittee shall apply for a Title V operation permit revision at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation or commencing operation as modified. Commencing operation means setting into operation of any emissions unit for any purpose. To apply for a Title V air operation permit revision, the applicant shall submit the following:
 - a. the appropriate permit application form (*see current version of Rule 62-210.900, F.A.C. (Forms and Instructions)*), and/or FDEP Division of Air Resource Management website at: <http://www.dep.state.fl.us/air/>;
 - b. a copy of the initial compliance test report(s) required by Specific Condition No. A.8., if not previously submitted; and
 - c. copies of the most recent two months of records/logs specified in Specific Condition No. A.15.

The application shall be submitted to the Permitting Authority.

[Rules 62-4.030, 62-4.050, 62-4.220 and Chapter 62-213, F.A.C.]

Y-WIDE AND EMISSIONS UNIT SPECIFIC C

A. EU No. 032 - Two Gasoline Storage Tanks

This section of the permit addresses the following emissions unit.

| ID No. | Emission Unit Description |
|--------|--|
| 032 | <p>These storage tanks have internal identification nos. of 621 and 619. The gasoline stored in these tanks is used for military and government owned and operated vehicles, primarily involving those associated with the 45th Space Wing.</p> <p>The Stage I Vapor Recovery will reduce emissions associated with storage tank working losses. The vapor recovery system does not affect the standing losses from the tank, as it will only provide control during the loading of the tanks.</p> <p>The vapor recovery system includes a combination of 3" and 4" carbon steel pipes manufactured by Wheatland Tube Company. The vapor recovery system will return the displaced vapors to the delivery truck.</p> <p>The vapor recovery system has an estimated 98.7 percent control efficiency (Reference: US EPA AP-42, Section 5.2, Transportation and Marketing of Petroleum Liquids, June 2008).</p> |

PERFORMANCE RESTRICTIONS

A.1. Federal Regulatory Requirements: This emission unit is subject to 40 CFR 63, Subpart CCCCCC - Gasoline Dispensing Facilities, which is incorporated and attached as a part of this permit (See Appendix F).
[Rule 62-213, F.A.C.; 40 CFR 63, Subpart CCCCCC]

A.2. Permitted Capacity: The total permitted throughput shall not exceed the following:

| Authorized Fuel | Maximum Throughput (million gallons per any consecutive 12 month period) |
|--|--|
| Gasoline (including ethanol/gasoline blends) | 1.0 |
| Diesel/ Biodiesel Fuel | 4.0 |
| Jet Fuel | 15.5 |

[Rule 62-210.200, (PTE), F.A.C. and Construction permit 0090021-004-AC]

A.3. 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.; Construction Permit 0090021-004-AC]

A.4. Restricted Operation: The permittee must only load gasoline into storage tanks and must utilize submerged filling.
[40CFR63, Subpart CCCCCC §63.11117 & §63.11132 and Rule 62-252.300, F.A.C.]

{Permitting Note: The tanks at PAFB utilize bottom fill which meets the definition of submerged fill.}

A.5. Restricted Operation: The permittee must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

A. EU No. 032 - Two Gasoline Storage Tanks

- a) Minimize gasoline spills;
- b) Clean up spills as expeditiously as practicable;
- c) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
- d) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

[40CFR63, Subpart CCCCCC §63.11116]

- A.6. Restricted Operation: The permittee shall utilize Stage I vapor recovery for the transfer of gasoline from gasoline cargo tanks to the gasoline storage tanks. [Rule 62-252.300(2), F.A.C.]

EMISSIONS STANDARDS

- A.7. VOC Emissions Limitation: The total permitted VOC emissions from the storage tanks shall not exceed 12.0 tons per any consecutive twelve months, updated monthly.
[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.; Construction permit 0090021-008-AC]

- A.8. Visible Emissions (VE) Limitation: No person shall cause, let, permit or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than 20 percent opacity.
[Rule 62-296.320(4)(b)1. (General Visible Emission Standard), F.A.C.]

- A.9. Unconfined Particulate Matter (PM) Emissions Limitation: In addition to the conditions in Appendix C., Condition No. 9, the following reasonable precautions shall be followed:

- a) Maintenance of paved areas as needed;
 - b) Periodic street sweeping;
 - c) Enforcement of Base speed limits; and
 - d) Regular mowing of grass and care of vegetation.
- [Rules 62-4.070(3) and 62-296.320(4)(c), F.A.C.]

- A.10 Control Technology Requirements (Rule 62-252.300(3), F.A.C.):

- a) The Stage I vapor recovery system required by this rule section (Rule 62-252.300, F.A.C.) shall conform with the equipment specifications of the U.S. Environmental Protection Agency document, "Design Criteria for Stage I Vapor Control Systems - Gasoline Service Stations," dated November 1975, with the exception of Attachment A, hereby adopted and incorporated by reference.
- b) The Stage I vapor recovery system piping shall include pressure-vacuum vents and be leak-tight.
[Rules 62-252.300 and 62-252.300(3), F.A.C.]

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

A. EU No. 032 - Two Gasoline Storage Tanks

TESTING REQUIREMENTS

- A.11. Initial Compliance Tests:** The permittee must demonstrate initial compliance by conducting an initial performance test on the vapor balance system as listed below in this condition and as required by §63.11120 of 40 CFR Part 63, Subpart CCCCCC. The initial tests shall be conducted no later than **180 days after initial operation of the unit.**
- (a) Each owner or operator, at the time of installation, as specified in §63.11113(e), of a vapor balance system required under §63.11118(b)(1), and every 3 years thereafter, must comply with the requirements in paragraphs (a)(1) and (2) of this section.
- (1) You must demonstrate compliance with the leak rate and cracking pressure requirements, specified in item 1(g) of Table 1 to this subpart, for pressure-vacuum vent valves installed on your gasoline storage tanks using the test methods identified in paragraph (a)(1)(i) or paragraph (a)(1)(ii) of this section.
- (i) California Air Resources Board Vapor Recovery Test Procedure TP-201.1E, – Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves, adopted October 8, 2003 (incorporated by reference, see §63.14).
- (ii) Use alternative test methods and procedures in accordance with the alternative test method requirements in §63.7(f).
- (2) You must demonstrate compliance with the static pressure performance requirement specified in item 1(h) of Table 1 to this subpart for your vapor balance system by conducting a static pressure test on your gasoline storage tanks using the test methods identified in paragraphs (a)(2)(i), (a)(2)(ii), or (a)(2)(iii) of this section.
- (i) California Air Resources Board Vapor Recovery Test Procedure TP-201.3, – Determination of 2-Inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities, adopted April 12, 1996, and amended March 17, 1999 (incorporated by reference, see §63.14).
- (ii) Use alternative test methods and procedures in accordance with the alternative test method requirements in §63.7(f).
- (iii) Bay Area Air Quality Management District Source Test Procedure ST-30 – Static Pressure Integrity Test – Underground Storage Tanks, adopted November 30, 1983, and amended December 21, 1994 (incorporated by reference, see §63.14).
- (b) Each owner or operator choosing, under the provisions of §63.6(g), to use a vapor balance system other than that described in Table 1 to this subpart must demonstrate to the Administrator or delegated authority under paragraph §63.11131(a) of this subpart, the equivalency of their vapor balance system to that described in Table 1 to this subpart using the procedures specified in paragraphs (b)(1) through (3) of this section.
- (1) You must demonstrate initial compliance by conducting an initial performance test on the vapor balance system to demonstrate that the vapor balance system achieves 95 percent reduction using the California Air Resources Board Vapor Recovery Test Procedure TP-

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

A. EU No. 032 - Two Gasoline Storage Tanks

201.1, – Volumetric Efficiency for Phase I Vapor Recovery Systems, adopted April 12, 1996, and amended February 1, 2001, and October 8, 2003, (incorporated by reference, see §63.14).

(2) You must, during the initial performance test required under paragraph (b)(1) of this section, determine and document alternative acceptable values for the leak rate and cracking pressure requirements specified in item 1(g) of Table 1 to this subpart and for the static pressure performance requirement in item 1(h) of Table 1 to this subpart.

(3) You must comply with the testing requirements specified in paragraph (a) of this section.

(c) Conduct of performance tests. Performance tests conducted for this subpart shall be conducted under such conditions as the Administrator specifies to the owner or operator based on representative performance (*i.e.*, performance based on normal operating conditions) of the affected source. Upon request, the owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests.

[Rules 62-4.070(3) and 62-297.310(7)(a)1, F.A.C.; 40 CFR 63, Subpart CCCCC §63.11120(a)(1) and (a)(2), and 40 CFR 63, Subpart A §63.7]

A.12. Test Requirements: Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit.
[Rule 62-297.310, F.A.C.]

A.13. Test Method(s): Required tests shall be performed in accordance with the following reference method(s).

| Method(s) | Description of Method and Comments |
|---|---|
| California Air Resource Board Vapor Recovery Test Procedure TP-201.1E | Leak Rate and cracking Pressure/Vacuum Vent Valves, adopted October 8, 2003 (incorporated by reference, see §63.14) |
| California Air Resource Board Vapor Recovery Test Procedure TP-201.3 | Determination of 2-Inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities, adopted April 12, 1996, and amended March 17, 1999 (incorporated by reference, see §63.14) |

The above method(s) are described in Appendix A of 40 CFR 63 and are adopted by reference in Rule 62-204.800, F.A.C. No other method(s) may be used unless prior written approval is received from the Department.

[Rules 62-204.800 and 62-297.100, F.A.C.; and 40 CFR 63, Subpart A]

NOTIFICATION REQUIREMENTS

A.14. Test Notification: The permittee shall notify the Compliance Authority in writing, at least 60 calendar days prior to the date on which each formal compliance test is to begin, of the date,

SECTION 3. FACILITY-WIDE AND EMISSIONS UNIT SPECIFIC CONDITIONS (DRAFT)

A. EU No. 032 - Two Gasoline Storage Tanks

time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the permittee.

[Rules 62-4.070(3) and 62-297.310(7)(a)9., F.A.C.; and 40 CFR 63, Subpart A§63.9(e)]

(Permitting Note: 40 CFR 63, Subpart CCCCCC §63.11124(4) - You must submit a Notification of Performance Test, as specified in §63.9(e), prior to initiating testing required by §63.11120(a) and (b). 40 CFR 63, Subpart A §63.9(e) - Notification of performance test. The owner or operator of an affected source shall notify the Administrator in writing of his or her intention to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin to allow the Administrator to review and approve the site-specific test plan required under §63.7(c), if requested by the Administrator, and to have an observer present during the test.)

- A.15. Notification of Operation Commencement:** The permittee shall notify the Compliance Authority in writing of the date of commencing operation of the vapor recovery system of EU No. 032, no later than five (5) business days after that date. Commencing operation means setting into operation of any emissions unit for any purpose.
[Rule 62-4.070, F.A.C., and Rule 62-210.200, F.A.C., (Definition of Commence Operation)]

RECORDS AND REPORTS

- A.16. 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.]

- A.16. Monthly Recordkeeping Requirements:** In order to demonstrate compliance with Specific Conditions No. A.2. and A.7., the permittee shall maintain a log at the facility for a period of at least five (5) years from the date the data is recorded. The log shall contain the following:

Monthly

- a) Date (Month and Year)
- b) Individual monthly fuel type and throughput for each listed storage tank;
- c) Consecutive 12 month total of fuel type and throughput for each listed storage tank;
- d) Consecutive 12 month total of total VOC emissions, total HAP emissions, and single HAP emissions.

[Rules 62-4.070(3), and 62-213.440(1)(b)2., F.A.C.; FESOP 0090021-005-AF]

- A.17. Additional Recordkeeping Requirements:** Records specified in Specific Condition No. A.16. (previous condition) must document the method, calculations, and formulas used in determining the usage rate and the emission rate. All calculations, including those used to derive emissions, must be clearly documented, and may be presented in the form of a template of sample calculations and available for review on site by the Department.
[Rule 62-4.070(3), F.A.C.]

- A.18. Supporting Documentation:** Supporting documentation, such as Material Safety Data Sheets, purchase orders, etc., shall be kept which includes sufficient information to determine compliance. The "Tanks Program version 4.0 or higher" or "United States Air Force Air

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Program Information Management System (APIMS)" shall be utilized to calculate VOC emissions from the tanks. The log and documents shall be kept at the facility for at least 5 years and made available to the Department. Monthly logs shall be completed by the end of the following month.

[Rules 62-4.070(3), and 62-213.440(1)(b)2.b., F.A.C.; Construction Permit 0090021-004-AC]

- A.19. **Malfunction Reports:** Each owner or operator of an affected source under this subpart (40 CFR 63, Subpart CCCCCC) shall report, **by March 15 of each year**, the number, duration, and a brief description of each type of malfunction which occurred during the previous calendar year and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with §63.11115(a), including actions taken to correct a malfunction. **No report is necessary for a calendar year in which no malfunctions occurred.**

[40 CFR 63, Subpart CCCCCC §63.11126(b)]