U.S. Department of Defense
Tyndall Air Force Base
Facility ID No.: 0050024
Bay County

Federally Enforceable State Operating Permit
Permit No.: 0050024-006-AF

Permitting and Compliance Authority
Department of Environmental Protection
Northwest District Office
160 Governmental Center
Pensacola, FL 32501-5794
Telephone: 850/595-8364
Fax: 850/595-8096

[electronic file name: 0050024-006-af.doc]

Air Operation Permit
Permit No.: 0050024-006-AF

Table of Contents

Section	Page Number
Placard Page	1
I. Facility Information	2
A. Facility Description.	
B. Summary of Emissions Unit ID Nos. and Brief Descriptions	
C. Relevant Documents.	
II. Facility-wide Conditions	3
III. Emissions Units and Conditions	
A. 010 Paint Booths	6
B. 011 Fuel Fill Stands	8
C. 013 Jet Engine Testing	9
D. 014 Cogeneration Combustion Unit	11
E. 015 NSPS Tanks	13
F. 016 Boilers	18

Appendices:
- Appendix G-1, General Conditions
- Appendix E-1, List of Exempt Emissions Units and/or Activities
- Appendix U-1, List of Unregulated Emissions Units and/or Activities

Permittee:
U.S. Department of Defense

Permit No.: 0050024-006-AF
Facility ID No.: 0050024
SIC No.: 9711
Project: Air Operation Permit

This permit is for the operation of Tyndall Air Force Base located five miles southeast of Panama City on Highway 98, Bay County; UTM Coordinates: Zone 16, 635.89 km East and 3327.25 km North; Latitude: 30° 03' 21" North and Longitude: 85° 35' 31" West.

STATEMENT OF BASIS: This air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.) and Florida Administrative Code (F.A.C.) Chapters 62-4 and 62-210. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit. Permit 0050024-002-AF is hereby rescinded and superceded upon issuance of permit 0050024-006-AF.

Referenced attachments made a part of this permit:
Appendix E-1, List of Exempt Emissions Units and/or Activities
Appendix G-1, General Conditions
Appendix U-1, List of Unregulated Emissions Units and/or Activities

Effective Date: May 16, 2000
Expiration Date: May 16, 2005

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

_____

Ed K. Middleswart, P.E.
Air Program Administrator

EKM/om

Section I. Facility Information.

Subsection A. Facility Description.

This facility consists of activities and operations related to national security. Several of these activities generate air pollutant emissions. These activities include surface preparation and coating; gas, diesel and jet fuel (JP-8) storage tanks; fuel transfers; jet engine testing; fossil fuel boilers; and, a cogeneration combustion unit.

Also included in this permit are miscellaneous unregulated and exempt emissions units and/or activities.

Based on the permit application received September 16, 1999, and the limits established by federally enforceable state operating permit 0050024-002-AF, this facility is not a major source of hazardous air pollutants (HAPs).

Subsection B. Summary of Emissions Unit ID Nos. and Brief Descriptions.

E.U. ID No.	Brief Description
010	Paint Booths
011	Fuel Fill Stands
013	Jet Engine Testing
014	Cogeneration Combustion Unit
015	NSPS Tanks
016	Boilers

Unregulated Emissions Units and/or Activities

017	Abrasive Blasting (6027-BLAST-1 & 9725-BLAST-1)

Please reference the Permit No., Facility ID No., and appropriate Emissions Units ID Nos. on all correspondence, test report submittals, applications, etc.

Subsection C. Relevant Documents.

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action.

These documents are on file with permitting authority:
Permit Application received September 16, 1999
Additional Information Request dated October 15, 1999
Additional Information Response received January 6, 2000
Additional Information Request dated January 27, 2000
Additional Information Response received March 7, 2000

Section II. Facility-wide Conditions.

The following conditions apply facility-wide:

1. APPENDIX G-1, GENERAL CONDITIONS, is a part of this permit.

2. Facility Emissions Caps. The following facility-wide limits have been requested by the Permittee and are being established as Federally Enforceable by this Federally Enforceable State Operating Permit (FESOP). This permit supercedes and, herewith, incorporates the facility-wide maximum operating limits for Hazardous Air Pollutants (HAPs) previously established by FESOP 0050024-002-AF. The following maximum operating limits are applicable to the facility:

Carbon Monoxide (CO)	90 tons/year
Sulfur Dioxide (SO_2)	90 tons/year
Volatile Organic Compounds (VOC)	80 tons/year
Nitrogen Oxides (NOx)	90 tons/year
Hazardous Air Pollutants (HAP)	8/21 tons/year (single/total)

The facility is a natural minor source for Particulate Matter.
[Federally Enforceable State Operating Permit application received September 16, 1999, and FESOP 0050024-002-AF]

3. Recordkeeping. To provide assurance that the facility wide emissions limits are not exceeded, the environmental office shall maintain an appropriate recordkeeping system throughout the facility to identify, track and quantify materials and activities in use at the facility that generate emission limited air pollutants. Both regulated and unregulated emission generating activities identified by this permit shall be included. In addition, each quarter the environmental office will quantify the cumulative annual total emissions for each specified pollutant for comparison with the annual limits. If by the end of the third quarter the emissions of any such pollutant exceeds 50% of its annual maximum allowable limit, recordkeeping shall revert to a monthly frequency. Subsequent to the end of each year, quarterly recordkeeping may again be resumed and the quantities shall be set to zero. Supporting documentation shall be kept as needed to support the calculations for determining emission levels. This information shall be available for inspection no later than 30 days following the end of each recording period. These records will be made available to the Department upon request and will be maintained for at least five years.
[Rule 62-4.070(3), F.A.C.]

4. General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
[Rule 62-296.320(2), F.A.C.]

5. General Particulate Emission Limiting Standards. General Visible Emissions Standard. Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.
[Rules 62-296.320(4)(b)1. & 4., F.A.C.]

6. Unregulated Emissions Units and/or Activities. Appendix U-1, List of Unregulated Emissions Units and/or Activities, is a part of this permit.
[Rule 62-213.440(1), F.A.C.]

7. Exempt Emissions Units and/or Activities. Appendix E-1, List of Exempt Emissions Units and/or Activities, is a part of this permit.
[Rules 62-213.440(1), 62-213.430(6), and 62-4.040(1)(b), F.A.C.]

8. Annual Operating Report. An annual operating report for air pollutant emitting facility, DEP Form 62-210.900(5), shall be submitted by March 1 of each year. A copy of the form and instructions may be obtained from the Department's Northwest District office.
[Rule 62-210.370, F.A.C.]

9. General Pollutant Emission Limiting Standards. Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds (VOC) or organic solvents (OS) without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.
[Rule 62-296.320(1)(a), F.A.C.]

10. Permit Renewal. Sixty days prior to the expiration date of this operation permit, the Permittee shall submit two permit renewal applications using the current version of the renewal form along with the processing fee established in FAC Rule 62-4.050(4) to the Northwest District office of the Department.
[Rule 62-4.090, F.A.C.]

11. The permittee shall submit all compliance related notifications and reports required of this permit to the Department's Northwest District office:

Department of Environmental Protection
Northwest District Office
160 Governmental Center
Pensacola, Florida 32501-5794
Telephone: 850/595-8364, press 7; Fax: 850/595-8096

A copy of all compliance related notifications shall be sent to the Northwest District Branch Office in Panama City at 2353 Jenks Ave, Panama City FL 32405.

12. The Department telephone number for reporting problems, malfunctions or exceedances under this permit is (850) 595-8364, extension 1220, day or night, and for emergencies involving a significant threat to human health or the environment is (800) 320-0519. For routine business, telephone (850) 595-8364, then press 7, during normal working hours.
[Rules 62-210.700 and 62-4.130, F.A.C.]

Section III. Emissions Units and Conditions.

Subsection A. This section addresses the following emissions unit.

E.U. ID No.	**Brief Description**
010	Paint Booths

This emissions source consists of the following seven spray paint booths:

156-PB1
315-PB1 (aircraft booth)
315-PB2
560-PB1
934-PB1
1134-PB1
9710-PB1

Particulate matter for all paint booths are controlled by filters. Volatile organic compounds (VOC) are not controlled. However, total VOCs are subject to base-wide limits imposed by this Federally Enforceable State Operating Permit. These emissions units are not regulated by any emissions unit specific rule. It is subject, however, to the General Visible Emissions Standard of Rule 62-296.320(4)(b)1, and the facility-wide General Pollutant Emission Limiting Standards for Volatile Organic Compounds (VOC) Emissions and Organic Solvents Emissions of Rule 62-296.320(1)(a), F.A.C.
[Rules 62-296.320(4)(b)1. & 62-296.320(1)(a), F.A.C.]

The following specific conditions apply to the emissions units listed above:

Essential Potential to Emit (PTE) Parameters

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

Emission Limitations and Standards
[No emission limitations are being established for this emissions unit. Instead, facility-wide limitations are being established and are shown in Section II.]

Test Methods and Procedures

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

A.2.a. Visible Emissions tests are required to show compliance with the standards of the Department. The test results must provide reasonable assurance that the source is capable of compliance at the permitted maximum operating rate. The visible emissions tests shall be conducted in accordance with DEP Method 9 for thirty minutes. Such tests shall be scheduled annually for Paint Booths 315-PB1 and 315-PB2 during the period from January 1 to March 31. All other paint booths shall be tested once during the final six months of this permit. The Department shall be notified at least 15 days prior to testing to allow witnessing. Results shall be submitted to the Department within 45 days after testing. Any permanent or temporary changes to the required test dates must be received in writing by the Department prior to the deadline for testing.
[Rules 62-4.070, 62-297.310(7), and 62-297.401(9), F.A.C.]

A.2.b. The test reports shall comply with applicable portions of F.A.C. Rule 62-297.310, Test Reports. The Department can require special compliance tests in accordance with F.A.C. Rule 62-297.310(7). Other test methods and alternate compliance procedures may be used only after prior Departmental approval has been obtained in writing.
[Rules 62-297.310(7) and 62-297.620(1), F.A.C.]

A.2.c. Testing of emissions shall be conducted with the source operating at capacity. Capacity is defined as 90-100% of rated capacity. If it is impractical to test at capacity, then sources may be tested at less than capacity; in this case subsequent source operation is limited to 110% of the test load until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than fifteen days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the Department. Each test report shall clearly identify the operating rate used during the test.
[Rules 62-297.310(2) and 62-4.070, F.A.C.]

Recordkeeping and Reporting Requirements

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

Subsection B. This section addresses the following emissions unit.

E.U. ID No.	Brief Description
011	Fuel Fill Stands

The three fuel fill stands located in the 400 area of Tyndall Air Force Base are used to transfer fuel between tank trucks and storage tanks. Diesel, JP-8 jet fuel and gasoline are all handled at this activity. Air emissions are composed of VOCs and HAPs which are emitted uncontrolled. This emissions unit is not subject to any unit specific regulations. [Note: limits on the annual quantity of fuels transferred were established by air construction permit 0050024-003-AC in order to escape PSD.]

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

Essential Potential to Emit (PTE) Parameters

B.1. Capacity. The annual quantity of JP-8 jet fuel transferred shall not exceed 300 million gallons; the annual quantity of diesel and gasoline transferred shall not exceed 2.4 million gallons, each. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; and air construction permit No. 0050024-003-AC]

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

Emission Limitations and Standards

[No emission limitations are being established for this emissions unit. Instead, facility-wide limitations are being established and are shown in Section II.]

Test Methods and Procedures [No testing is required for this emissions unit.]

Recordkeeping and Reporting Requirements

B.3. The environmental office shall maintain appropriate recordkeeping for Fuel Fill Stand operations. The information recorded shall demonstrate that the facility is complying with the annual limits on fuels as stipulated above. Fuel transfer quantities shall be compiled on a quarterly basis. If the transfer quantities for any of the fuels exceeds 50 % of the annual maximum allowables at the end of the third quarter, the permittee shall revert to a monthly schedule of recordkeeping for all fuels. Upon each anniversary date of this permit, all recordkeeping shall recommence. These records shall be maintained for at least five years from the date of recording and shall be available for inspection by personnel of the Department no later than 30 days following each data collection period.
[Rule 62-4.070(3), F.A.C.]

Section III. Emissions Unit and Conditions.

Subsection C. This section addresses the following emissions unit.

E.U. ID No.	**Brief Description**
013	Jet Engine Testing

Jet Engine testing is done both in Building 258 (258-JET-1) and in Building 325 (325-JET-1). 258-JET-1 is Model No. 281317 manufactured by Air Research Manufacturer of Phoenix, AZ. Engines tested at 258-JET-1 are JFS 190 or their equivalents. 325-JET-1 is Model No. A/F 37T-10 manufactured by Environmental Elements Corp of Baltimore, MD. Engines tested at 325-JET-1 are F100-PW-100 or their equivalents. This emissions unit is not regulated by any unit specific regulation.

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

Essential Potential to Emit (PTE) Parameters

C.1. Capacity. Test Stand 258-JET-1 is limited to a maximum 400 tests per year. Test Stand 325-JET-1 is limited to a maximum 450 tests per year. For 258-JET-1, the standard test profile is defined as 3 minutes in idle power mode followed by 3.5 minutes in military power. For 325-JET-1, the standard test profile is defined as 40 minutes in idle power mode, 30 minutes in military power and 35 minutes in afterburner.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C., FESOP application and response letter received March 7, 2000]

C.2. Methods of Operation - (i.e., Fuels). All tests are conducted using JP-8 as a fuel.
[Rules 62-4.160(2) and 62-213.440(1), F.A.C.]

C.3. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards
[No emission limitations are being established for this emissions unit. Instead, facility-wide limitations are being established and are shown in Section II.]

Test Methods and Procedures [No testing is required for this emissions unit.]

Recordkeeping and Reporting Requirements

C.4. The permittee shall keep records of all engine tests. These records shall be sufficient to support calculations for all emissions subject to the facility wide pollutant limits. For JFS 190

and F100-PW-100 engines (or their equivalents) tested at the power settings and for periods equal to or less than the times defined in the standard test profile defined above, only engine type and number of tests need be recorded. For any other engine type or for any test that either uses different power settings or exceeds the periods at each power setting defined by the standard test profile, the engine type and time at each power setting shall be recorded to provide a basis for calculating emissions. Emission calculations shall be accomplished according to the schedule provided in Section II Item 3. All records shall be retained for 5 years and be available for inspection by Department personnel upon request.
[Rule 62-4.070(3), F.A.C.]

Section III. Emissions Unit and Conditions.

Subsection D. This section addresses the following emissions unit.

E.U. ID No.	**Brief Description**
014	Cogeneration Combustion Unit

The Cogeneration Combustion Unit is an internal combustion engine fueled by natural gas and provides backup electrical power to the base hospital. The unit is Model 3512TA manufactured by Caterpillar and is rated at 1.0 MW. This unit is not subject to any unit specific regulations.

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

Essential Potential to Emit (PTE) Parameters

D.1. Capacity. The maximum heat input rate is 5.30 MMBtu/hr.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; and additional information to FESOP application received January 6, 2000]

D.2. Methods of Operation - This emissions unit is fueled by natural gas or propane.
[Rules 62-4.160(2) and 62-213.440(1), F.A.C.]

D.3. Hours of Operation. The hours of operation for this emissions unit shall not exceed 2080 hours/year.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards
[No emission limitations are being established for this emissions unit. Instead, facility-wide limitations are being established and are shown in Section II.]

Test Methods and Procedures

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

D.4.a. Visible Emissions tests are required to show compliance with the standards of the Department. The test results must provide reasonable assurance that the source is capable of compliance at the permitted maximum operating rate. The visible emissions tests shall be conducted in accordance with DEP Method 9 for 30 minutes. Such tests shall be scheduled once within the final six months of the term of this permit. The Department shall be notified at least 15 days prior to testing to allow witnessing. Results shall be submitted to the Department within 45 days after testing.
[Rules 62-4.070, 62-297.310(7), and 62-297.401(9), F.A.C.]

D.4.b. The test reports shall comply with applicable portions of F.A.C. Rule 62-297.310, Test Reports. The Department can require special compliance tests in accordance with F.A.C. Rule 62-297.310(7). Other test methods and alternate compliance procedures may be used only after prior Departmental approval has been obtained in writing.
[Rules 62-297.310(7) and 62-297.620(1), F.A.C.]

D.4.c. Testing of emissions shall be conducted with the source operating at capacity (5.3 MMBtu/hr or 5.0 SCF/hr natural gas or propane). Capacity is defined as 90-100% of rated capacity. If it is impractical to test at capacity, then sources may be tested at less than capacity; in this case subsequent source operation is limited to 110% of the test load until a new test is conducted. Once the unit is so limited, then operation at higher capacities is allowed for no more than fifteen days for purposes of additional compliance testing to regain the rated capacity in the permit, with prior notification to the Department.
[Rules 62-297.310(2) and 62-4.070, F.A.C.]

Recordkeeping and Reporting Requirements

D.5. Records shall be kept to provide assurance that the total annual operating time of this emissions unit does not exceed the maximum allowable operating limit of 2080 hours per year. These records shall be made available for inspection by Department personnel upon request. Records of the operating times will be kept for a minimum of five years.
[Rule 62-4.070(3), F.A.C.]

Section III. Emissions Unit and Conditions.

Subsection E. This section addresses the following emissions unit.

E.U. ID No.	**Brief Description**
015	NSPS Tanks

This emissions unit is composed of 9 storage tanks. **Tanks 407** and **409** have a capacity of 480 kgallons (gallons x 1000), each, and are authorized to store only JP-8. **Tanks 6044, 6045, 6046** and **6047** have capacities of 93, 410, 821 and 838 kgals, respectively, and are authorized to store JP-8. **Tanks 401, 403** and **405** have a capacity of 60 kgallons, each, and can store either diesel or gasoline.

This emissions unit is regulated under the provisions of NSPS - 40 CFR 60, Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984, adopted and incorporated by reference in Rule 62-204.800, F.A.C. *However, due to the low vapor pressure of JP-8, Tanks 407, 409, 6044, 6045, 6046 and 6047 are subject only to the record-keeping requirements of 60.116b(a) & (b).*

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

Essential Potential to Emit (PTE) Parameters

E.1. Methods of Operation - Storage of each tank is limited to the following fuels:

Storage Tank	JP-8 Fuel	Diesel	Gasoline
401		**X**	**X**
403		**X**	**X**
405		**X**	**X**
407	**X**		
409	**X**		
6044	**X**		
6045	**X**		
6046	**X**		
6047	**X**		

[Rules 62-4.160(2) and 62-213.440(1), F.A.C.; FESOP application received September 16, 1999]

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

Emission Limiting Standards

E.3. *(Applicable to Tanks 401, 403 and 405)*
Standard for volatile organic compounds (VOC) - For each storage vessel with a design capacity greater than or equal to 151 m^3 (39,890 gals) containing a VOL that, as stored, has a maximum true vapor pressure equal to or greater than 5.2 kPa (0.75 psi) but less than 76.6 kPa (11.11 psi):

The owner or operator shall equip storage vessels **401, 403 and 405** with the following:

(l) A fixed roof in combination with an internal floating roof meeting the following specifications:
(i) The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall float on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.
(ii) Each internal floating roof shall be equipped with one of the following closure devices between the wall of the storage vessel and the edge of the internal floating roof:
(A) A foam-or liquid-filled seal mounted in contact with the liquid (liquid-mounted seal). A liquid-mounted seal means a foam-or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank.
(B) Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.
(C) A mechanical shoe seal. A mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.
(iii) Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents shall provide a projection below the liquid surface.
(iv) Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains shall be equipped with a cover or lid which shall be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted except when they are in use.

(v) Automatic bleeder vents shall be equipped with a gasket and shall be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.
(vi) Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.
(vii) Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.
(viii) Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.
(ix) Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.
[40 CFR 60.112b; Rule 204.800, FAC]

Test Methods and Procedures

E.4. *(Applicable to Tanks 401, 403 and 405)*
Each storage vessel as specified in 40 CFR 60.112b(a) shall meet the requirements of 40 CFR 60.113b(a). The testing and procedures for a particular storage vessel depends on the control equipment installed to meet the requirements of 40 CFR 60.112b.

60.113b(a) After installing the control equipment required to meet 40 CFR 60.112b(a)(1) (permanently affixed roof and internal floating roof), each owner or operator shall:
(1) Visually inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, the owner or operator shall repair the items before filling the storage vessel.
(2) For vessels equipped with a liquid-mounted or mechanical shoe primary seal, visually inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If the internal floating roof is not resting on the surface of the VOL inside the storage vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the owner or operator shall repair the items or empty and remove the storage vessel from service within 45 days. If a failure that is detected during inspections required in 40 CFR 60.113b(2) cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the Administrator in the inspection report required in 40 CFR 60.115b(a)(3). Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.
(3) For vessels equipped with a double-seal system as specified in 40 CFR 60.112b(a)(1)(ii)(B):
(i) Visually inspect the vessel as specified in 40 CFR 60.113b(a)(4) at least every 5 years; or
(ii) Visually inspect the vessel as specified in 40 CFR 60.113b(a)(2).

(4) Visually inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed. If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the owner or operator shall repair the items as necessary so that none of the conditions specified in 40 CFR 60.113b(4) exist
before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years in the case of vessels conducting the annual visual inspection as specified in 40 CFR 60.113b(a)(2) and 40 CFR 60.113b(a)(3)(ii) and at intervals no greater than 5 years in the case of vessels specified in 40 CFR 60.113b(a)(3)(i).

(5) Notify the Administrator in writing at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(a)(1) and 40 CFR 60.113b(a)(4) to afford the Administrator the opportunity to have an observer present. If the inspection required by 40 CFR 60.113b(a)(4) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, the owner or operator shall notify the Administrator at least 7 days prior to the refilling of the storage vessel. Notification shall be made by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Administrator at least 7 days prior to the refilling.
[40 CFR 60.113b; Rule 62-204.800, FAC]

Reporting and recordkeeping requirements.

E.5. *(Applicable to Tanks 401, 403 and 405)*
The owner or operator of each storage vessel as specified in 40 CFR 60.112b(a) shall keep records and furnish reports as required by 40 CFR 60.115b(a). The owner or operator shall keep copies of all reports and records required by this section ... for at least 2 years.

60.115b(a) After installing control equipment in accordance with 40 CFR 60.112b(a)(1) (fixed roof and internal floating roof), the owner or operator shall meet the following requirements.

(1) Not Applicable.

(2) Keep a record of each inspection performed as required by 40 CFR 60.113b(a)(1). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

(3) If any of the conditions described in 40 CFR 60.113b(a)(2) are detected during the annual visual inspection required by 40 CFR 60.113b(a)(2), a report shall be furnished to the Administrator within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made.

(4) After each inspection required by 40 CFR 60.113b(a)(3) that finds holes or tears in the seal

or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 40 CFR 60.113b(a)(3)(ii), a report shall be furnished to the Administrator within 30 days of the inspection. The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR 61.112b(a)(1) or 40 CFR 60.113b(a)(3) and list each repair made.
[Rule 62-296.800, F.A.C.; 40 CFR 60.115b]

E.6. *(Applicable to Tanks 401, 403, 405, 407, 409, 6044, 6045, 6046 and 6047)*

60.116b(a) The owner or operator shall keep copies of all records required by this section, except for the record required by 40 CFR 60.116b(b), for at least 2 years. The record required by 40 CFR 60.116b(b) shall be kept for the life of the source.

(b) The owner or operator of each storage vessel as specified in 40 CFR 60.110b(a) shall keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Each storage vessel with a design capacity less than 75 m^3 is subject to no provision of this subpart other than those required by this paragraph.

(c) Except as provided in 40 CFR 60.116b(f) and 40 CFR 60.116b(g), the owner or operator of each storage vessel either with a design capacity greater than or equal to 151 m^3 storing a liquid with a maximum true vapor pressure greater than or equal to 3.5 kPa or with a design capacity greater than or equal to 75 m^3 but less than 151 m^3 storing a liquid with a maximum true vapor pressure greater than or equal to 15.0 kPa shall maintain a record of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.

(d) Except as provided in 40 CFR 60.116b(g), the owner or operator of each storage vessel either with a design capacity greater than or equal to 151 m^3 storing a liquid with a maximum true vapor pressure that is normally less than 5.2 kPa or with a design capacity greater than or equal to 75 m^3 but less than 151 m^3 storing a liquid with a maximum true vapor pressure that is normally less than 27.6 kPa shall notify the Administrator within 30 days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values for each volume range.

(e) Available data on the storage temperature may be used to determine the maximum true vapor pressure as determined below.

(1) For vessels operated above or below ambient temperatures, the maximum true vapor pressure shall be calculated based upon the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure shall be calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service.

(2) For crude oil or refined petroleum products the vapor pressure may be obtained by the following:

(i) Available data on the Reid vapor pressure and the maximum expected storage temperature based on the highest expected calendar-month average temperature of the stored product may be used to determine the maximum true vapor pressure from nomographs contained in API Bulletin 2517 (incorporated by reference-see 40 CFR 60.17), unless the Administrator specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the sample(s).
[Rule 62-296.800, F.A.C.; 40 CFR 60.116b]

Section III. Emissions Unit and Conditions.

Subsection F. This section addresses the following emissions unit.

E.U. ID No.	**Brief Description**
016	Boilers

This emissions unit consists of the following natural gas fueled boilers with equal to or greater than 1.0 mmBtu per hour heat input: 3029, 1550, 1465-1, 1465-2, 1361-2, 1277-1, 1153, 1120, 1117, 950, 939, 659, 647, 634, 561, 522, 421-1, 315, 280, 258, 256, 227, 182-1, 182-2, 180(1), 180(2). This emissions unit also includes propane fueled boiler 3029-Boil-1. The heat input rates for these boilers ranges from 1.0 to 6.0 MMBtu/hr. [Tyndall response letter (Attachment 2) received January 6, 2000, contains further details of these boilers.] Note: All boilers rated less than 1.0 MMBtu per hour are exempt per Rule 62-210.300(3)4, FAC.`

This emissions unit is not subject to any unit specific regulations.

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

Essential Potential to Emit (PTE) Parameters

F.1. Methods of Operation - These boilers are fueled by natural gas or propane only.
[Rules 62-4.160(2) and 62-213.440(1), F.A.C.]

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

Emission Limitations and Standards
[No emission limitations are being established for this emissions unit. Instead, facility-wide limitations are being established and are shown in Section II.]

Test Methods and Procedures
[No testing is required for this emissions unit.]

Reporting and recordkeeping requirements.

F.3. Records will 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. This information will be the basis for calculating emissions. This information will be available to the Department upon request no later than the end of the month following each quarter. Recordkeeping shall recommence at the start of each new year.
[Rule 62-4.070(3), F.A.C.]

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

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

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

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

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

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

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

a. Having access to and copying any records that must be kept under the conditions of this permit;

b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and,

c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

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

a. A description of and cause of noncompliance; and

b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent

recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

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

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. The permittee shall comply with the following:

a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurement;
- the person responsible for performing the sampling or measurement;
- the date(s) analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

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

Permit Processing Data

Name, Title, and Mailing Address of Party to Receive Permit:
Walter E. Buchanan III
Commander, 325th Fighter Wing
445 Suwannee Ave., Suite 101
Tyndall AFB, FL 32403-5541

The Engineer to be Copied:

Additional Parties to be Copied:
FDEP Northwest District Branch Office, Panama City

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL
In the matter of an
Application for Permit
By:
Walter E. Buchanan III
Commander, 325th Fighter Wing
445 Suwannee Ave., Suite 101
Tyndall AFB, FL 32403-5541
_____/

DEP File No. 0050024-006-AF
Bay County

Enclosed is Permit Number 0050024-006-AF, issued pursuant to Section 403.087, Florida Statutes, for operating various sources of air emissions at Tyndall Air Force Base. This permit will synthetically establish base-wide maximum allowable limits on emissions in order to maintain the facility as a minor source of air pollutants.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen 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 will be only at the approval of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department'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 how and when petitioner received notice of the agency action or proposed action;

(d) A statement of all disputed issues of material fact.If there are none, the petition must so indicate;

(e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action;

(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and

(g) A statement of the relief sought by the petitioner, stating precisely the action 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 Department'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

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation is not available in this proceeding.

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 thirty days after this order is filed with the clerk of the Department.

Executed in Pensacola, Florida.

State of Florida Department
of Environmental Protection

_____

ED K. MIDDLESWART, P.E.
Air Program Administrator

160 Governmental Center
Pensacola, Florida 32501-5794
(850) 595-8364

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed by certified (Permittee) or regular mail before the close of business on_____ to the listed persons.

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

Clerk Date

Copies furnished to:

FDEP Northwest District Branch Office, Panama City

MEMORANDUM

TO : Ed K. Middleswart, P.E.
FROM : Andy Allen, Owen Mancarella
DATE : 09/13/00
SUBJECT : Evaluation Summary for U.S. Department of Defense, Tyndall Air Force Base 0050024-006-AF, Bay County

We recommend issuing a federally enforceable state operating permit to the U.S. Department of Defense to operate Tyndall Air Force Base. This facility consists of activities and operations related to national security. Several of these activities generate air pollutant emissions. These activities include surface preparation and coating; gas, diesel and jet fuel (JP-8) storage tanks; fuel transfers; jet engine testing; fossil fuel boilers and a cogeneration unit.

Also included in this permit are miscellaneous unregulated and exempt emissions units and/or activities.

Initially, Tyndall AFB had submitted a Title V permit application on June 13, 1996. This application had identified additional air emitting activities. Following an exchange of letters and during discussions intended to clarify the information presented, the facility contact determined that, with reasonable recordkeeping and monitoring, the facility could accept caps in order to avoid being a Title V source altogether. A FESOP application was submitted on September 16, 1999, and the Title V application subsequently withdrawn.

Upon issuance, this permit will rescind previously issued permit 0050024-002-AF which established facility wide limits only for HAPs. This previous permit was requested by the permittee to escape the NESHAPs for Aerospace work (only applied to major sources for HAPs). Permit 0050024-006-AF incoporates these HAP limits and adds other conditions required to regulate non HAP pollutants and other non-HAP generating activities.

Based on the permit application received September 16, 1999, and the limits established by federally enforceable state operating permit 0050024-002-AF, this facility is not a major source of hazardous air pollutants (HAPs).

Summary of Emissions Unit ID Nos. and Brief Descriptions.

E.U. ID No.	Brief Description
010	Paint Booths
011	Fuel Fill Stands
013	Jet Engine Testing
014	Cogeneration Combustion Unit
015	NSPS Tanks
016	Boilers

Unregulated Emissions Units and/or Activities

017	Abrasive Blasting (6027-BLAST-1 & 9725-BLAST-1)

Pollution Control Equipment: Paint booths are equipped with filters to control PM. Relevant NSPS tanks (not all the NSPS tanks require this) are equipped with floating roofs to control VOCs. Boilers and the Cogeneration Combustion Unit are restricted to the use of natural gas and propane fuels.

Environmental Impact

Airborne Contaminant Emitted	FAC Rule	Estimated Emissions lbs/hr	Estimated Emissions T/yr	Allowable Emissions lb/hr	Allowable Emissions T/yr
PM	N/A			N/A	N/A
PM10	N/A			N/A	N/A
VOC	N/A			N/A	80
HAPs	N/A			N/A	8/21
NOx	N/A			N/A	90
SO2	N/A			N/A	90
CO	N/A			N/A	90
Objectionable Odors	62-296.320(2)			None allowed off plant property.	
VE	62-296.320(4)(b)1			Less than 20% opacity	

Applicable Rules & Regulations. The NSPS tanks are regulated in accordance with 40 CFR 60 Subpart Kb. Some of these NSPS tanks are subject only to the requirements for recordkeeping. None of the other emissions units are subject to any unit specific regulations.

Compliance Monitoring. Annual opacity testing is required for the two largest paint booths (315-PB1 & 2). All other paint booths which operate at below reporting thresholds require VE testing once during the final 6 months of the permit term. Recordkeeping is required for each emissions unit to show cumulative compliance with the facility emissions caps.

Compliance History. The history for compliance at this facility has been good. Several emissions sources were identified and documented for the first time in the facility's application for a Title V permit. The TV application was subsequently withdrawn and the facility requested synthetic limits to remain as a minor source of air emissions.

Fee Summary There are two EU"s with a VE testing requirement (#010 & 014) and five different other EU's with no required testing for a total fee of $5000. A check for $6000 was submitted with the application. A refund for $1000 will be processed.

om:omc