

ATTACHMENT A

I. PERMIT EXPIRATION.

A. An operating permit shall remain in effect until the expiration date noted on the face of the permit unless the control officer revokes the permit for cause prior to the expiration date.

B. An installation permit shall remain in effect until: (1) an operating permit is granted, (2) the control officer revokes the permit for cause, or (3) two years from the date of issuance of this permit. (17.08.020 C. of the Pima County Code).

II. (INSTALLATION PERMITS ONLY) NOTIFICATION OF COMMENCEMENT OF CONSTRUCTION AND START-UP. For all equipment, facilities, and systems addressed by an installation permit, the control officer shall be notified in writing of the anticipated date of initial start-up of each source not more than sixty (60) days nor less than thirty (30) days prior to such date and shall be notified in writing of the actual date of commencement of construction and start-up within fifteen (15) days after such date.

III. FACILITIES OPERATION.

A. The permittee shall operate all sources in compliance with Pima County Regulations, and consistently with all federal, state, and local laws, statutes, and codes that apply to these sources. Issuance of this permit shall not relieve the permittee from the responsibility of obtaining all other applicable permits, licenses, or certificates, nor from complying with all applicable provisions of this or any other regulatory agency.

B. All equipment, facilities, and systems used to achieve compliance with the terms and conditions of this permit shall be properly maintained at all times .

IV. MALFUNCTION. The permittee shall notify the control officer within 4 hours of the start of the next regular business day after the occurrence of a violation of a control standard. (17.28.060 of the Pima County Code).

V. RIGHT TO ENTER. Authorized representatives of the control officer shall be allowed:

A. to enter at reasonable times (when the facility is in operation) upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of this permit; and

B. at reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; and

C. to inspect any equipment, operations, or systems associated with sources addressed in this permit; and

D. to sample emissions from sources.

VI. TRANSFER OF OWNERSHIP. This permit shall not be transferable, whether by operation of law or otherwise, from one piece of equipment to another, or from one person to another, or from one location to another. The permittee shall notify a succeeding owner or operator of the requirements of this permit and its conditions and the need to obtain a new permit from the control officer. (17.08.130 of the Pima County Code).

VII. POSTING OF PERMIT. The permittee shall firmly affix the permit, an approved facsimile of the permit, or other approved identification bearing the permit number upon the source for which the permit was issued. In the event that such source is so constructed or operated that the permit cannot be so placed, the permit shall be mounted so as to be clearly visible in an accessible place within a reasonable distance of the source or maintained readily available at all times on the premises. (17.08.120 of the Pima County Code).

VIII. REPRESENTATIONS IN APPLICATIONS FOR PERMIT AND EXEMPTIONS.

All representations with regard to construction plans and operating procedures in the application for the permit, or the exemption from the requirements of the permit, become conditions upon which subsequent permits are issued. Any variance from such representations, if the variance shall cause a change in the method of control of emissions, the character of the emissions, or shall result in an increase in the discharge of various emissions, shall be considered a violation of this permit unless the permittee first makes application to the control officer in that regard and such amendment, modification, or new permit is approved by the control officer.

IX. ALLOWABLE EMISSIONS. The permittee is authorized to discharge or cause to discharge into the atmosphere emissions of air contaminants listed in Attachment C entitled "Emission Sources - Maximum Allowable Emissions Rates" and only from those sources that are listed in Attachment C, unless such emissions are otherwise authorized under separate permit(s) by the control officer.

X. (INSTALLATION PERMITS ONLY) OPERATION OF THE EQUIPMENT. This permit authorizes the permittee to temporarily operate the equipment or process for a period of ninety (90) calendar days following the completion of the installation if the applicant has complied with the terms and conditions of this permit.

XI. SEVERABILITY. The provisions of this permit are severable and if any provision of this permit is held invalid the remainder of this permit shall not be affected thereby.

ATTACHMENT B

Special Conditions for Permit Number 1701 for Davis-Monthan Air Force Base.

I. Pollution Parameters, Control Equipment, Monitoring, and Testing.

A. Emission Limit(s)

The permittee shall not discharge or cause the discharge into the atmosphere of pollutants from the emission points and areas listed in Attachment C in excess of the rates listed in Attachment C.

B. Opacity Limit

Opacity for all aspects of the operation shall be kept at or below 40 percent by the permittee as determined using method 9 of 40 CFR 60, Appendix A.

C. Flow Meter

The permittee shall provide a flow meter (with a readout that is readily accessible to the control officer or his deputies) to continuously measure the stack exit air flow rate during the operation of the soil vapor extraction system (SVES). The permittee shall not operate the SVES without the flow meter operating and reading out the stack exit air flow rate values within 10 percent of the actual flow. The permittee shall submit manufacturer's data to the control officer showing: (1) the accuracy of the flow meter under the operating conditions at the site, and (2) manufacturer's recommended operating, calibration, and maintenance procedures. The flow meter shall not be installed without being approved by the control officer.

E. Testing and Monitoring

1. Initial Installation Performance Test(s)

Within sixty (60) days after achieving the maximum production rate of the SVES, but no later than sixty (60) days after the initial start-up of the SVES the permittee shall find and make record of the concentrations (in ppm) and emission rates (in pounds per hour) of: (1) total hydrocarbons, (2) benzene, (3) toluene, (4) ethylbenzene, and (5) xylene leaving the SVES. The permittee shall also find and make record of: (1) the flow measurement method being used, (2) the flow during the test, (3) the appropriate documentation and/or calculations which the flow was derived. Tests shall be conducted in accordance with EPA or equivalent tests approved by PDEQ and a test plan approved by PDEQ.

3. Periodic Testing

Once each month the permittee shall find and make record of the concentrations (in ppm) and emission rates (in pounds per hour) of: (1) total VOCs, (2) benzene, (3) toluene, (4) ethylbenzene, and (5) xylene leaving the SVES. The permittee shall also find and make record of: (1) the flow measurement method being used, (2) the flow during the test, (3) the appropriate documentation and/or calculations which the flow was derived. Tests shall be conducted in accordance with EPA or equivalent tests approved by PDEQ and a test plan approved by PDEQ.

4. A test plan for the tests required above shall be submitted to PDEQ within twenty (20) days of the effective date of this permit. The test plan shall be either approved or rejected with comments by PDEQ within twenty (20) days of receipt of the plan by PDEQ. If approved, the plan shall proceed as scheduled in the plan. If disapproved, the permittee shall correct all deficiencies in the plan within twenty (20) days of the return of the comments and resubmit the plan to PDEQ.

G. Maintenance

1. In order to minimize the emission rate to the ambient air, all equipment shall be checked at least once every week by the permittee to insure that it is maintained in good operating condition. Records of these checks and results shall be recorded at least once every week.
2. The flow meter shall be operated, calibrated and maintained in accordance with the manufacturer's instructions.

III. Recordkeeping/Reporting

A. Original records documenting all tests, test procedures, analyses of samples, test results, monitoring results, and maintenance of testing devices and continuous emissions monitors are to be retained by the permittee at the facility site for inspection by the PDEQ for 3 years.

Copies of the test, monitoring, and maintenance records are to be sent to PDEQ upon request within five working days of the request.

B. Records of all testing (including data collected, calculations, and test results) and maintenance required by this permit shall be delivered to PDEQ in February, May, August, and November of each year for the three immediately preceding months for the duration of this permit.

ATTACHMENT C

| SOURCE | CONTAMINANT | STACK PARAMETERS | | | | LBS/HR | LB/DAY | TONS/YR |
|-------------------------|-------------|------------------|---------|----------|--------|--------|--------|---------|
| | | HT(M) | DIAM(M) | VEL(M/S) | CONC. | | | |
| ----- | ----- | ----- | ----- | (ppmv) | ----- | ----- | ----- | |
| EV-35-1 (S1)JP-4 | 3.8 | * | 2.5 | <10000 | <4.83 | <116 | <80 | |
| EV-35-2 (S2)BENZENE | -- | -- | -- | <69 | <0.017 | <24 | <0.28 | |
| EV-35-3 (S3)TOLUENE | -- | -- | -- | " | " | " | " | |
| MW-8 (S4) XYLENE | --- | --- | --- | " | " | " | " | |
| MW-12 (S5) ETHYLBENZENE | -- | -- | -- | " | " | " | " | |

* 1FT X 1FT SQUARE STACK (0.305 M X 0.305 M)

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DAVIS-MONTHAN AIR FORCE BASE
PERMIT NUMBER 1701
ATTACHMENT A

PART A
STANDARD PERMIT CONDITIONS FOR ALL
CLASS I & II INDIVIDUAL SOURCE PERMITS

This Attachment, including Part A, Parts B-00 through B-06, and Appendix A, issued on August 31, 1998.

I. PERMIT TERM (17.12.180.A.1.)

An operating permit shall remain in effect from the effective date until the expiration date noted on the face of the permit, unless the control officer revokes the permit for cause prior to the expiration date.

II. APPLICABILITY

The Standard Permit Conditions in this Part apply to all processes, operations, and equipment listed in Part B(s) of this permit. Source specific permit conditions are contained in Part B following this Part A.

III. FACILITY COMPLIANCE WITH OTHER CODES (17.12.010.D.)

Issuance of an air permit shall not relieve the permittee from compliance with all local, county, state, and federal laws, statutes, and codes.

IV. APPLICABLE REQUIREMENTS & PERMIT SHIELDS (17.12.310)

A. The permit conditions contained in Part A, STANDARD PERMIT CONDITIONS FOR ALL CLASS I & II INDIVIDUAL SOURCE PERMITS, and Part B, SOURCE SPECIFIC PERMIT CONDITIONS, represent "applicable requirements" that apply to this source as of the effective date of this permit. No emissions source is shielded from any applicable requirement unless such a shield is specifically identified herein.

B. Nothing in this section or in any permit shall alter or affect the following:

1. The provisions of section 303 of the Clean Air Act (emergency orders), including the authority of the Administrator under that section.
2. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance.
3. The applicable requirements of the acid rain program, consistent with section 408(a) of the Act (Permits and Compliance Plans).
4. The ability of the Administrator or the control officer to obtain information from a source pursuant to section 114 of the Act (Inspections, Monitoring and Entry), or

any provision of state law.

5. The authority of the control officer to require compliance with new applicable requirements adopted after the permit is issued.
 6. The duty of the source to comply with new applicable requirements adopted after the permit is issued.
- C. In addition to the provisions of 17.12.270, a permit may be reopened by the control officer and the permit shield revised when it is determined that standards or conditions in the permit are based on incorrect information provided by the applicant.

V. FEDERALLY ENFORCEABLE REQUIREMENTS (17.12.180.B.)

- A. All terms and conditions in a Class I permit, including any provisions designed to limit a source's potential to emit, are enforceable by the Administrator of the United States Environmental Protection Agency and citizens under the Clean Air Act.
- B. This permit shall specifically designate any terms and conditions included herein as being federally enforceable that are required under the Act or under any of its applicable requirements.

VI. COMPLIANCE PROVISIONS (17.12.180.A.8.)

- A. The permittee shall comply with all conditions of the permit. Any permit noncompliance is grounds for enforcement action; for a permit termination, revocation and reissuance, or revision; or for denial of a permit renewal application. Noncompliance with any federally enforceable requirement in a permit constitutes a violation of the Act.
- B. Need to halt or reduce activity not a defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- C. The permit may be revised, reopened, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
- D. The permit does not convey any property rights of any sort, or any exclusive privilege.
- E. The permittee shall furnish to the control officer, within a reasonable time, any information that the control officer may request in writing to determine whether cause exists for revising, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the control officer copies of records required to be kept by the permit. For information claimed to be confidential, the permittee shall furnish a copy of such records directly to the Administrator along with a claim of confidentiality.
- F. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in the permit. This provision shall not apply to emissions trading between

sources as provided in the implementation plan.

- G. This permit shall be reopened and revised under any of the following circumstances (17.12.270):
1. Additional applicable requirements under the Act become applicable to a major (Class I) source with a remaining permit term of three or more years. Such a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 17.12.280.B. Any permit reopening required pursuant to this section shall comply with provisions in 17.12.280 for permit renewal and shall reset the five year permit term.
 2. Additional requirements, including excess emissions requirements, become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the Class I permit.
 3. The control officer or the Administrator determines that, for a Class I or Class II permit, the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
 4. The control officer or the Administrator determines that, for a Class I or Class II permit, the permit needs to be revised or revoked to assure compliance with the applicable requirements.
- H. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act (Acid Deposition Control), both provisions shall be incorporated into the Class I permit and shall be enforceable by the Administrator. (17.12.180.A.2.b)

VII. PAYMENT OF FEES (17.12.180.A.9)

- A. Permittee shall pay permit fee(s) to the control officer in accordance with A.R.S. 49-480.D. and 17.12.510.
- B. The permittee may make fee payments in installment payments of half payments, if otherwise authorized pursuant to the provisions of 17.12.510.
- C. The permittee's failure to pay appropriate fees may result in prosecution by the county attorney and the assessment of both criminal and civil penalties pursuant to the provisions of 17.28.070 and 17.28.080.

VIII. RIGHT TO ENTER (17.12.210.A.4.)

Upon presentation of proper credentials and subject to security requirements, the permittee shall allow the control officer [or one of his authorized agents] to:

- A. Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records are required to be kept under the conditions of the permit;
- B.. Have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
- C. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;
- D. Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or other applicable requirements; and
- E. To record any inspection by use of written, electronic, magnetic and photographic media.

IX. PERMIT DISPLAY OR POSTING (17.12.080)

- A. Any person who has been granted an individual permit by PDEQ or a general permit by ADEQ shall post such permit, or a certificate of permit issuance on location where the equipment is installed in such a manner as to be clearly visible and accessible. All equipment covered by the permit shall be clearly marked with one of the following:
 - 1. The current permit number.
 - 2. A serial number or other equipment number that is also listed in the permit to identify that piece of equipment.
- B. In the event that such machine, equipment, incinerator, device or other article is so constructed or operated that such permit cannot be so placed, the permit shall be mounted so as to be clearly visible in an accessible place within a reasonable distance of such machine, equipment, incinerator, device or other article, or maintained readily available at all times on the operating premises.
- C. A copy of the complete permit shall be kept on site.

X. FACILITY CHANGES ALLOWED WITHOUT PERMIT REVISIONS (17.12.230)

- A. A facility with a permit may make changes without a permit revision if all of the following apply:
 - 1. The changes are not modifications under any provision of Title I of the Act (Air Pollution Prevention and Control) or under A.R.S. 49-401.01(17).
 - 2. The changes do not exceed the emissions allowable under the permit whether expressed therein as a rate of emissions or in terms of total emissions.
 - 3. The changes do not violate any applicable requirements or trigger any additional applicable requirements.
 - 4. The changes satisfy all requirements for a minor permit revision under 17.12.250.
 - 5. The changes do not contravene federally enforceable permit terms and conditions

that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements.

- B. The substitution of an item of process or pollution control equipment for an identical or substantially similar item of process or pollution control equipment shall qualify as a change that does not require a permit revision, if it meets all of the requirements of subsections A, D, and E of this Section.
- C. Except for sources with authority to operate under general permits, permitted sources may trade increases and decreases in emissions within the permitted facility, as established in the permit pursuant to 17.12.180(A)(12), where an applicable implementation plan provides for such emissions trades, without applying for a permit revision and based on the seven working days notice prescribed in subsection D of this section. This provision is available in those cases where the permit does not already provide for such emissions trading as a minor permit revision.
- D. For each change under subsections A through C of this section, a written notice, by certified mail or hand delivery, shall be received by the control officer and, for Class I permits, the Administrator a minimum of seven (7) working days in advance of the change. Notifications of changes associated with emergency conditions, such as malfunctions necessitating the replacement of equipment, may be provided less than 7 working days in advance of the change but must be provided as far in advance of the change, or if advance notification is not practicable as soon after the change as possible.
- E. Each notification shall include:
 - 1. When the proposed change will occur.
 - 2. A description of each such change.
 - 3. Any change in emissions of regulated air pollutants.
 - 4. The pollutants emitted subject to the emissions trade, if any.
 - 5. The provisions in the implementation plan that provide for the emissions trade with which the source will comply and any other information as may be required by the provisions in the implementation plan authorizing the trade.
 - 6. If the emissions trading provisions of the implementation plan are invoked, then the permit requirements with which the source will comply.
 - 7. Any permit term or condition that is no longer applicable as a result of the change.
- F. The permit shield described in 17.12.310 shall not apply to any change made pursuant to subsections A through C of this section. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the implementation plan authorizing the emissions trade.
- G. Except as otherwise provided for in the permit, making a change from one alternative operating scenario to another as provided under 17.12.180.A.11 shall not require any prior notice under this Section.

- H. Notwithstanding any other part of this Section, the control officer may require a permit to be revised for any change that when considered together with any other changes submitted by the same source under this Section over the term of the permit, does not satisfy subsection A.

XI. PERMIT RENEWAL (17.12.280)

- A. A permit being renewed is subject to the same procedural requirements, including any for public participation and affected states and Administrator review, that would apply to that permit's initial issuance. To renew the permit, the permittee shall follow the procedures described in subsection D below.
- B. Except as provided in 17.12.150.A, permit expiration terminates the source's right to operate unless a timely application for renewal that is sufficient under A.R.S. 41-1064 has been submitted in accordance with 17.12.160. Any testing that is required for renewal shall be completed before the proposed permit is issued by the control officer.
- C. The control officer shall act on an application for permit renewal within the same time frame as on an initial permit application.

XII. PERMIT TRANSFERS (17.12.290)

- A. Any person may apply to the control officer to have a Class I or II permit transferred to another person by giving notice to the control officer at least thirty days before the proposed transfer. The notice shall contain the following:
 - 1. The permit number and expiration date.
 - 2. The name, address and telephone number of the current permit holder.
 - 3. The name, address and telephone number of the organization to receive the permit.
 - 4. The name and title of the individual within the organization who is accepting responsibility for the permit along with a signed statement by that person indicating such acceptance.
 - 5. A description of the equipment to be transferred.
 - 6. The effective date of the proposed transfer.
 - 7. A signed statement by the new owner attesting that the new owner is familiar with the provisions of ~~this title~~ Title 17 of the Pima County Code, and this permit and will comply with all applicable standards.
- B. The control officer shall deny the transfer if the control officer determines that the organization receiving the permit is not capable of operating the source in compliance with Article 3, Chapter 3, Title 49, Arizona Revised Statutes, the provisions of this Chapter or the provisions of the permit. Notice of the denial shall be sent to the original permit holder by certified mail stating the reason for the denial within ten working days of the control officer's receipt of the application. If the transfer is not denied within ten working days after receipt of the notice, it shall be deemed approved.

- C. To appeal the transfer denial:
 - 1. Both the transferor and transferee shall petition the hearing board in writing for a public hearing; and
 - 2. The appeal process for a permit shall be followed.

XIII. REPRESENTATIONS IN APPLICATIONS (17.12.160.I.3.)

The control officer may issue a notice of termination of a permit issued pursuant to this Chapter if:

- A. The control officer has reasonable cause to believe that the permit was obtained by fraud or misrepresentation.
- B. The person applying for the permit failed to disclose a material fact required by the permit application form or the regulation applicable to the permit, of which the applicant had or should have had knowledge at the time the application was submitted.
- C. The terms and conditions of the permit have been or are being violated.

XIV. EXCESS EMISSIONS PROVISIONS FOR EMERGENCIES, STARTUP AND MALFUNCTION

A. Emergency Provision for Excess Emissions (17.12.180.E.)

- 1. For all permits that specify emission limitations, emissions in excess of the limitation contained in the terms of the permit shall constitute a violation of Title 17 of the Pima County Code, the Code of Federal Regulations, and the Permit.
- 2. An emergency constitutes an affirmative defense to an action brought for noncompliance of the emission limitations if the conditions of subdivision E.3. of 17.12.180 (subsection 3 of this section) are met.
- 3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
 - b. The permitted facility was at the time being properly operated;
 - c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
 - d. The permittee submitted notice of the emergency to the control officer by certified mail or hand delivery within two (2) working days of the time when emission limitations were exceeded due to the emergency. This notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective action taken.
- 4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

5. This provision is in addition to any emergency or upset provision contained in any applicable requirement.
- B. Reviews for Startup, Shutdown, or Malfunctions (17.28.065.)
 1. A source operator shall notify the control officer of any occurrence during malfunction, startup, or shutdown in which a provision of this ~~title~~ permit is violated. Such notification shall identify the time, location, involved equipment, and the cause of the occurrence to the extent known. The notification shall be made by telephone or facsimile and be made within 24 hours of the time when the operator first learned of the occurrence of the excess emissions.
 2. The operator shall submit detailed written notification to the control officer within 72 hours of the initial notification required in XIV.B.1.
 - C. Reporting of Deviations from Permit Requirements (17.12.180.A.5): Refer to XVIII.B of this Part.
- XV. RECORDKEEPING FOR COMPLIANCE DETERMINATIONS (17.24.020 and 17.12.180.A.3 and A.4)
- A. Source specific recordkeeping requirements will be found in the applicable Part B of this permit.
 - B. Records of Required Monitoring Information
 1. In addition to specific recordkeeping requirements specified in the applicable Part B(s) of this permit, including those records required pursuant to 17.12.220 herein, records of required monitoring information shall also include the following, when applicable:
 - a. The date, place as defined in the permit, and time of sampling or measurements;
 - b. The date(s) analyses were performed;
 - c. The name of the company or entity that performed the analyses;
 - d. A description of the analytical techniques or methods used;
 - e. The results of such analyses;
 - f. The operating conditions as existing at the time of sampling or measurement; and
 - g. Chain of custody.
 2. Retention of records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
- XVI. RECORDKEEPING FOR EMISSION INVENTORIES (17.24.030 and 17.12.320)

In order that the control officer may accurately estimate emissions from a specific source or compile

a total inventory of emissions in Pima County, the source operator may be required to collect certain information which will allow the control officer to estimate the types, quantities, and frequencies of emissions.

XVII. SEVERABILITY (17.12.180.A.7.)

Should any article, section, subsection, subdivision, paragraph, item, clause or phrase of this permit be declared unconstitutional or invalid for any reason, the remainder of this permit shall not be affected thereby, with all remaining portions of the permit continuing in full force.

XVIII. REPORTING REQUIREMENTS

A. Any document required to be submitted by this permit, including reports and compliance plans and certifications, shall contain a certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under this Chapter shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete (17.12.210.A.5).

B. Reporting of Monitoring Data and Deviations from Permit Requirements (17.12.180.A.5)

1. The permittee shall submit written reports of any required monitoring, including recordkeeping, to PDEQ every 6 months. The first report shall be due 6 months after the issue date of this permit, and every 6 months thereafter. All instances of deviations from permit requirements shall be clearly identified in such reports. All required reports shall be certified by a responsible official consistent with 17.12.160.H and 17.12.210.A.5.

2. The permittee shall promptly report deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. Notice in accordance with XIV.A.3.d of this Part shall be considered prompt for purposes of this paragraph.

C. Annual Compliance Certification (17.12.210)

A compliance certification with terms and conditions contained in this permit, including emission limitations, standards, or work practices shall be submitted to the control officer as specified in Part(S) B of this permit.

XIX. TESTING FREQUENCIES (17.20.070)

A. In addition to any test requirements specified in the applicable Part B(s) of this permit, the control officer, prior to issuing or renewing an operating permit, or when the control officer has reasonable cause to believe that any permit condition, mass limiting emissions-discharge standard or any ambient air standard is being violated, may require the source to measure the quantity of regulated air pollutant being emitted from the source or in the ambient air in the vicinity of the source.

B. The control officer may have the necessary tests performed by qualified personnel under his direction, or the source operator may opt (with the approval of the control officer) to perform

the tests and submit to the control officer a report of the tests within thirty days of completion of the time period approved for sampling.

PERMIT NO: 1701
PART B-00

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PERMIT NO: 1701
SOURCE SUMMARY

This is a revision to the permit for this existing source. A title V permit application was received from Davis-Monthan Air Force Base in May 1995. A permit application seeking a permit revision to establish synthetic minor status for Federal HAP was received on April 30, 1998. This significant permit revision achieves that purpose, and are in no way intended to be construed as a replacement for the Air Quality Operating Permit # 1701 presently in force for this facility.

This facility operates, maintains, and stores military aircraft. There are also support facilities for the base personnel and operations. The permit is in five major parts;

- 1) The facilities for storing and dispensing fuels used in motor vehicles and portable generators. These are a mixture of fuel pumps and small underground and above ground storage tanks;
- 2) The facilities for the storage of fuels used in military aircraft operations. These are large storage tanks with floating roofs and other storage tanks used for the storage of fuels that are loaded out through the facilities listed in 4. below;
- 3) The facilities for cleaning and coating operations, and aircraft storage;
- 4) The facilities for loading fuels into aircraft or tanker trucks;
- 5) Engine driven equipment and emergency generators, abrasive cleaners, degreasers, and jet engine testing;
- 6) Turbine driven aerospace ground equipment.

SOURCEWIDE ALLOWABLE EMISSIONS SUMMARY
In Tons per Year

| | HAP | HAPs |
|-----------|-------|--------|
| PART B-01 | 0.62 | 1.81 |
| PART B-02 | 0.25 | 0.73 |
| PART B-03 | 7.18 | 14.64 |
| PART B-04 | 0.44 | 1.27 |
| PART B-05 | 1.31 | 6.013 |
| PART B-06 | 0.001 | 0.41 |
| TOTAL | 9.801 | 24.873 |

PART B-01
SOURCE SPECIFIC PERMIT CONDITIONS
Fuel Tanks and Fuel Dispensing

PERMIT NO: 1701

GENERAL NOTE: For the text of definitions and regulations from Title 17 of the Pima County Code which are applicable to this permit refer to Appendix A of Part B herein

I. **APPLICABILITY: EXISTING UNDERGROUND FUEL STORAGE TANKS AND NON RETAIL SERVICE STATIONS DISPENSING GASOLINE AND OTHER FUELS**

A. Affected Emission Source or Process: This Part B contains equipment specific requirements for the operation of small fuel storage tanks and fuel dispensing apparatus meeting the definition of existing sources as defined in Appendix A.

Davis-Monthan Air Force Base
5285 East Madera Street
Davis-Monthan AFB, AZ 85707

Applicable Devices/Processes

Group II – Base Fuels Government Fuel Storage Tanks

| # of Units | Facility Number | Source Description | Fuel Type |
|------------|-----------------|---|------------------------|
| 1 | 125-01 | Fuel Dispensing, AGE | Fuels |
| 1 | 125-02 | 5,000 gal. UST | Diesel, JP-8 |
| 1 | 125-03 | 5,000 gal. UST with submerged fill and Stage I vapor recovery | Gasoline, JP-8, Diesel |
| 1 | 125-04 | 2,500 gal. UST | JP-8, Diesel |
| 1 | 4703-01 | Military Gas Station Fuel Dispensing | Diesel, Gasoline |
| 1 | 0237-03 | Fuel Dispensing | Gasoline, Diesel |
| 1 | 237-01 | 250 gal. AST w/submerged fill | Gasoline, Diesel, JP-8 |
| 1 | 237-02 | 500 gal. AST | Diesel, JP-8 |
| 1 | 1750-01 | 500 gal. AST w/submerged fill | Gasoline, JP-8, Diesel |
| 1 | 4703-02 | 5,000 gal. UST w/submerged fill and Stage I vapor recovery | Gasoline, JP-8, Diesel |
| 3 | 4703-04 | 5,000 gal. USTs | Diesel, JP-8 |

| | | | |
|---|---------|---|--------------|
| 1 | 4703-03 | 12,000 gal. UST w/submerged fill and Stage I vapor recovery | Fuels |
| 1 | 4712-02 | Fuel Dispensing, EMS AGE | Fuels |
| 1 | 4712-03 | 5,000 gal. UST w/submerged fill and Stage I vapor recovery | Fuels |
| 1 | 4712-04 | 5,000 gal. UST | Diesel, JP-8 |
| 1 | 4712-05 | 5,000 gal. UST | Diesel, JP-8 |
| 1 | 7222-02 | Fuel Dispensing, Age Station | Fuels |
| 1 | 7222-03 | 5,000 gal. UST w/submerged fill and Stage I vapor recovery | Fuels |
| 1 | 7222-04 | 5,000 gal. UST | Diesel, JP-8 |
| 1 | 7222-05 | 5,000 gal. UST | Jet Fuel |
| 1 | 7337-01 | Fuel Dispensing, AMARC Station | Fuels |
| 2 | 7337-02 | 3,000 gal. USTs w/submerged fill and Stage I vapor recovery | Fuels |
| 1 | 7337-03 | 5,000 gal. UST | Diesel, JP-8 |

| Group III – Other Organization Tanks/Dispensing | | | |
|--|---------|---------------------------------|-------|
| 1 | 1749-01 | Fuel Dispensing, Aero Club | Fuels |
| 1 | 1749-02 | 6,000 gal. AST w/submerged fill | Fuels |

“Fuels” in the table above include gasoline, diesel, and JP-8.

B. Affected Emission Source Classification: Synthetic Minor for Total Federal Hazardous Air Pollutants (HAPs) and Individual HAPs.

C. Approved Alternate Operating Scenarios (17.12.180.A.11.) **NONE**

II. EMISSION LIMITATIONS AND STANDARDS (17.12.180.A.2.)

A. Emission Limits and Standards (17.12.220)

1. Allowable emission limits: The following emission rates for the storage and distribution of fuel shall not be exceeded. They were determined based on standard EPA AP-42 emission factors and an EPA approved HAP fraction (25% of VOC emissions). The fraction of total HAPs emitted assigned to an individual HAP is based on a PDEQ survey.

Emissions as a 12 month rolling total:

| <u>Pollutant(Tons per Year)</u> | Tons per Year |
|---------------------------------|------------------|
| | ~~~~~ |
| Total HAP | 1.81 |
| Benzene | 0.19 |
| Toluene | 0.50 |
| Ethylbenzene | 0.19 |
| Xylene | 0.62 |
| n-Hexane | 0.31 |

2. All gasoline storage tanks (as identified by fuel type in the table of “Applicable Sources” in Section I.A of this permit) shall be equipped with a submerged filling device pursuant to 17.16.230.D. and 17.16.520.1. **[NOTE: THIS IS A FEDERALLY ENFORCEABLE REQUIREMENT AND A MATERIAL PERMIT CONDITION]**

3. All pumps and compressors which handle volatile organic compounds shall be equipped with mechanical seals or equivalent pursuant to 17.16.230.D. and 17.16.520.3. **[NOTE: THIS IS A FEDERALLY ENFORCEABLE REQUIREMENT]**

B. Compliance with emission limits and standards:

Authority for these permit conditions for both new and existing **synthetic minor** sources is provided in accordance with voluntary emission limit reductions taken pursuant to 17.12.220. **[THIS IS A FEDERALLY ENFORCEABLE REQUIREMENT AND MATERIAL PERMIT CONDITION]**

1. Fuel products allowed to be stored and distributed at this facility shall be limited to:
 - a. Motor Vehicle gasolines
 - b. Number 2 through 6 fuel oils
 - c. Gas turbine fuels numbers JP-5 and JP-8
 - d. Diesel fuel oils numbers 2-D and 4-D

[THIS IS A FEDERALLY ENFORCEABLE REQUIREMENT]

2. Combined throughput of fuel products for each group (i.e., Groups II, and III) of facilities (as identified in the table of “Applicable Sources” in Section I.A of this permit, shall not exceed the following limits (in gallons per year – of each fuel type) based on a twelve month rolling total:

Group II – Base Fuels (combined)
Gasoline: 1,000,000 gal/yr
Diesel: 2,000,000 “
JP-8: 5,000,000 “

Group III – Other Organizations (Aero Club)
Gasoline: 50,000 gal/yr

[THIS IS A FEDERALLY ENFORCEABLE REQUIREMENT]

3. Stage I vapor collection systems (consisting of a vapor-tight return line from the storage tank(s) or its vent(s) to the gasoline transport vehicle) are required on those gasoline tanks noted in paragraph I.A. as having them. The allowable emissions shown in paragraph II.A.1 of this part are calculated with Stage I vapor recovery assumed for the noted tanks. All system hardware and components conform to those systems and components certified by the State of California Air Resources Board (CARB). The Control Officer shall verify, by inspection, that the Stage I collection system is in place and operating at each affected tank.

The permittee shall perform the following in order to assure the integrity of each phase I vapor recovery system as identified in the table in I.A. of this Part:

- a. On a weekly basis:
 - i. Check with operating personnel for any known deficiencies,
 - ii. Check for leaks on suction and discharge piping, seals, packing glands, etc.,
 - iii. Tighten or replace loose, missing damaged nuts, bolts, or screws,
 - iv. Clean dispensing system equipment, and
 - v. Check hoses and nozzles for condition.
- b. On a monthly basis:

- i. Check pump operation; vibration, noise, overheating etc.
 - c. On a quarterly basis:
 - i. Check for corrosion on pump exterior and base plate, clean, prime & paint, and
 - ii. Pressure test system for leaks,
 - d. Semi-Annually:
 - i. Clean and repair tank vents, and
 - ii. Check drop tube seal, spring, and operability
 - e. Annually:
 - i. Check leak detector pressure relief setting, and
 - ii. Check leak detector operation.
 - f. Any equipment found needing repair or not functioning properly shall be repaired promptly.
 - g. Complete and maintain a maintenance record/report showing the dates, time of day, result, and action taken (if required) for each requirement identified in II.B.3.a through 3.f above.
4. No other fuel may be stored or held in the tanks than those that are noted for each tank in paragraph I.A. (17.12.220)

C. Permit Shield(s): **NONE**

III. EMISSION LIMITS FOR ALTERNATIVE OPERATING SCENARIOS PURSUANT TO 17.12.180.A.11: **NONE**.

IV. FUGITIVE EMISSION LIMITATIONS: **THIS HEADING NOT USED IN THIS PART**

V. ACID DEPOSITION CONTROL (17.12.180.A.5): Any emissions in excess of any allowances lawfully held by the permittee under Title IV of the Clean Air Act or Title 17 of the Pima County Code are prohibited. **NOT APPLICABLE**

VI. SPECIAL CONDITIONS APPLICABLE TO EMISSIONS TRADING (17.12.180.A.12), **NONE**

VII. COMPLIANCE PLAN (17.12.210)

A. Compliance Schedule for Operations Not in Compliance (17.12.210.A.7.b.iii): **NONE**

B. Future Applicable Requirements Becoming Effective During the Permit Term - Subject to Specific Time Requirements; e.g. EPA promulgation of MACT or failure to promulgate MACT by mandated timelines (17.12.210.A.7.b.ii): **NONE**

VIII. EMISSION TESTING & MONITORING REQUIREMENTS (17.12.180.A)
[FEDERALLY ENFORCEABLE REQUIREMENTS]

A. Monitoring and/or Analysis Test Methods and Procedures:

Refer to VIII.D.1. of this Part

B. Equipment Installation and/or Maintenance Requirements:

Permittee shall ensure that petroleum liquid storage tanks are equipped with a submerged filling device for the control of hydrocarbon emissions. (P.C.C.17.16.230.B)

C. Quality Assurance Plan (17.12.070): **NONE**

D. Recordkeeping Requirements:

1. To verify compliance with II.B.1 and II.B.2 of this Part, permittee shall keep and maintain operations logs for Group II and Group III, with tanks showing the following: (17.16.230.E): **[FEDERALLY ENFORCEABLE]**

a. Tank identification;

b. The type, date, and quantity (in gallons) of fuel loaded into each tank; and

c. The total quantity (in gallons) of all fuels loaded into all tanks during the month of record, and the total quantity of all fuels loaded into all tanks during the eleven (11) months prior to the month of record plus the month of record. The totals for each month shall be recorded by the end of the month after the end of the month of record. If no fuel was loaded into a particular tank during a given month, the log shall note that no fuel was received.

2. The permittee shall maintain records as required in XV.B. of Part A. The records shall be retained for a period of five (5) years, and shall be made available upon request to the Control Officer.

E. Reporting Requirements:

1. Special Reporting for the Affected Source or Process: Permittee shall promptly submit written reports to the Control Officer of any instances of deviation from permit requirements. The permittee shall also submit reports for all required monitoring and recordkeeping requirements every six months. (refer to XIV.A and XVIII.B of Part A of this permit).

2. Emissions Inventory Reporting (17.12.320): Every source subject to a permit requirement shall complete and submit to the control officer an annual emissions

inventory questionnaire pursuant to 17.12.320 contained in Appendix A of this permit.

3. Permittee shall submit to the Control Officer a compliance certification which describes the compliance status of the source with respect to each permit condition.[PCC 17.12.180.A.5. and PCC 17.12.210.A.2.]

4. Semiannual compliance certification reports shall be due on February 15th and August 15th of each year and shall cover the period July 1st through December 31st and January 1st through June 30th, respectively. The first semiannual report may not cover a six-month period.

5. In addition to the date of the reporting period, each compliance certification shall include the following:

- a. Identification of each term or condition of the permit that is the basis of the certification;
- b. Compliance status of each applicable requirement;
- c. Whether compliance was continuous or intermittent;
- d. Method(s) used for determining the compliance status of the source, currently and over the reporting period;
- e. All instances of deviations from permit requirements reported pursuant to Section XI.B of this Part;
- f. A progress report on all outstanding compliance schedules submitted pursuant to Section XI.C of this Part.

6. A copy of all compliance certifications for Class I permits shall also be submitted to the EPA Administrator.

IX. CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS

[PCC 17.12.210.A.3.]

Any document required to be submitted by this permit, including reports, shall contain a certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required by this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

PART B-02
SOURCE SPECIFIC PERMIT CONDITIONS
Fuel Loading

PERMIT NO: 1701

GENERAL NOTE: For the text of definitions and regulations from Title 17 of the Pima County Code which are applicable to this permit refer to Appendix A of Part B herein

I. APPLICABILITY:

A. Affected Emission Source or Process: This Part B is issued for the revision of an existing permit for the operation of fuel loading apparatus meeting the definition of an existing source as defined in Appendix A.

Davis-Monthan Air Force Base
 5285 East Madera Street
 Davis-Monthan AFB, AZ 85707

Applicable Devices/Processes

| # of Units | PDEQ ID # | Facility Number | Source Description | Fuel Type |
|------------|-----------|-----------------|--|-----------|
| 2 | 0117-01 | 117 | Fuel loading rack (two fill-stands) at the Bulk Storage Area | Jet Fuel |
| 1 | 0117-06 | Basewide | Basewide aircraft refueling with tank trucks and/or hydrant outlets | Jet Fuel |
| 1 | 0202-01 | 202 | Fuel loading rack (one fill-stand) for tank trucks at the A2 Pumphouse | Jet Fuel |
| 1 | 0202-02 | 202 | Fuel loading rack (one fill-stand) for tank trucks at the A2 Pumphouse | Diesel |
| 1 | 0202-03 | 202 | Fuel loading rack (one fill-stand) for tank trucks at the A2 Pumphouse | Gasoline |
| 1 | 0206-01 | 206 | Fuel loading rack (one fill-stand) for tank trucks at the J3 Pumphouse | Jet Fuel |
| 1 | 0207-01 | 207 | Fuel loading rack (one fill-stand) for tank trucks at the J4 Pumphouse | Jet Fuel |

B. Affected Emission Source Classification: Class I; Major Source for Criteria Pollutants; Synthetic Minor Source for Total Federal Hazardous Air Pollutants (HAPs) and Individual HAPs; Stationary source.

C. Approved Alternate Operating Scenarios (17.12.180.A.11.): **NONE**

II. EMISSION LIMITATIONS AND STANDARDS (17.12.180.A.2.)

A. Emission Limits and Standards:

1. Allowable emission limits: The following emission rates for the loading of gasoline, JP-8, and Diesel fuel shall not be exceeded. They were determined based on standard EPA AP-42 emission

factors and an EPA approved HAP fraction (25% of VOC emissions). The fraction of total HAPs emitted assigned to an individual HAP is based on a PDEQ survey. **17.12.220 [MATERIAL PERMIT CONDITION]**

Emissions (As a 12 month rolling total)

| Pollutant | Tons per Year |
|------------------|------------------|
| ~~~~~ | |
| Total HAP..... | 0.73 |
| Benzene | 0.08 |
| Toluene | 0.20 |
| Ethylbenzene ... | 0.08 |
| Xylenes | 0.25 |
| n-Hexane | 0.13 |

2. All pumps and compressors which handle volatile organic compounds shall be equipped with mechanical seals or equivalent pursuant to 17.16.230.D. and 17.16.520.3.

B. Compliance with Emission Limits and Standards:

1. Synthetic Minor Source Permit Conditions: Authority for these permit conditions for both new and existing **synthetic minor** sources is also provided in accordance with voluntary emission limit reductions taken pursuant to 17.12.220. **[THIS IS A FEDERALLY ENFORCEABLE REQUIREMENT AND MATERIAL PERMIT CONDITION]**

2. Fuel products allowed to be stored and distributed at this facility shall be limited to:

- (1) Motor Vehicle gasolines
- (2) Number 2 through 6 fuel oils
- (3) Gas turbine fuels numbers JP-5 and JP-8
- (4) Diesel fuel oils numbers 2-D and 4-D

3. Combined loading rack throughput for all facilities (as identified in the table of “Applicable Devices/Processes” in Section I.A of this permit, shall not exceed the following limits (in gallons per year) based on a twelve month rolling total:

| | |
|------------------|-------------------------|
| Gasoline: | 1,000,000 gal/yr |
| Diesel: | 2,000,000 “ |
| JP-8: | 150,000,000 “ |

The records maintained pursuant to Section VIII.D of this permit must reflect each loading activity (if more than one are used).

C. Permit Shield(s): Compliance with the permit conditions of this permit shall be deemed compliance with the following applicable requirements, therefore constituting a permit shield from those requirements pursuant to 17.12.310. **NONE**

III. EMISSION LIMITS FOR ALTERNATE OPERATING SCENARIO PURSUANT TO 17.12.180.a.11:
NONE

IV. FUGITIVE EMISSION LIMITATIONS:
THIS HEADING NOT USED IN THIS PART

V. ACID DEPOSITION CONTROL (17.12.180.A.5):

Any emissions in excess of any allowances lawfully held by the permittee under Title IV of the Clean Air Act or Title 17 of the Pima County Code are prohibited. **NOT APPLICABLE**

VI. SPECIAL CONDITIONS APPLICABLE TO EMISSIONS TRADING (17.12.180.A.12
NONE

VII. COMPLIANCE PLAN (17.12.210)

A. Compliance Schedule for Operations Not in Compliance 17.12.210.A.7.b.iii: **NONE**

B. Future Applicable Requirements Becoming Effective During the Permit Term - Subject to Specific Time Requirements; e.g. EPA promulgation of MACT or failure to promulgate MACT by mandated timelines (17.12.210.A.7.b.ii): **NONE**

VIII. EMISSION TESTING & MONITORING REQUIREMENTS (17.12.180.A)
[FEDERALLY ENFORCEABLE REQUIREMENTS]

A. Monitoring and/or Analysis Test Methods and Procedures:

Refer to VIII.D.1. of this Part

B. Equipment Installation and/or Maintenance Requirements:

Pursuant to 17.16.230.D, the permittee shall provide for submerged filling or acceptable equivalent, for the control of hydrocarbon emissions. Note that for purposes of this section a loading rack is a loading "dock" as covered under 17.16.230.D. (P.C.C.17.16.230)

C. Quality Assurance Plan (17.12.070): **NONE**

D. Recordkeeping Requirements:

1. To verify compliance with II.B.2 and II.B.3 of this Part, permittee shall keep and maintain an operation log for each fuel loading facility rack and the basewide aircraft refueling system to include, at a minimum, the following: (17.16.230.E): **[FEDERALLY ENFORCEABLE]**

a. Loading identification;

b. The total quantity (in gallons) of all fuels loaded by type through racks and/or tank trucks into all tanks during the month of record, and the total quantity of all fuels loaded during the eleven (11) months prior to the month of record plus the month of record. The totals for each month shall be recorded by the end of the month after the month of record.

If no fuel was loaded through a particular loading rack during a given month, the record shall note that no fuel was distributed or loaded.

2. The permittee shall maintain records as required in XV.B. of Part A. The records shall be retained for a period of five (5) years, and shall be made available upon request to the Control Officer.

E. Reporting Requirements:

1. Special Reporting for the Affected Source or Process: Permittee shall promptly submit written reports to the Control Officer of any instances of deviation from permit requirements, all required monitoring and recordkeeping requirements every six months, (refer to XIV.A and XVIII.B of Part A of this permit).
2. Emissions Inventory Reporting (17.12.320): Every source subject to a permit requirement shall complete and submit to the control officer an annual emissions inventory questionnaire pursuant to 17.12.320 contained in Appendix A of this permit.
3. Permittee shall submit to the Control Officer a compliance certification which describes the compliance status of the source with respect to each permit condition.[PCC 17.12.180.A.5. and PCC 17.12.210.A.2.]
4. Semiannual compliance certification reports shall be due on February 15th and August 15th of each year and shall cover the period July 1st through December 31st and January 1st through June 30th, respectively. The first semiannual report may not cover a six-month period.
5. In addition to the date of the reporting period, each compliance certification shall include the following:
 - a. Identification of each term or condition of the permit that is the basis of the certification;
 - b. Compliance status of each applicable requirement;
 - c. Whether compliance was continuous or intermittent;
 - d. Method(s) used for determining the compliance status of the source, currently and over the reporting period;
 - e. All instances of deviations from permit requirements reported pursuant to Section XI.B of this Part;
 - f. A progress report on all outstanding compliance schedules submitted pursuant to Section XI.C of this Part.

6. A copy of all compliance certifications for Class I permits shall also be submitted to the EPA Administrator.

IX. CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS

[PCC 17.12.210.A.3.]

Any document required to be submitted by this permit, including reports, shall contain a certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required by this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

PART B-03
 SOURCE SPECIFIC PERMIT CONDITIONS
 Surface Coating, Solvent usage, etc.
 PERMIT NO: 1701

I. APPLICABILITY: Affected Emission Source or Process - This permit is issued for the purpose of creating voluntary emission limits for hazardous air pollutants (HAPS) from surface coating booths and non-point or “Area” use of HAP-containing materials including surface coatings, thinners, adhesives, surface prep solvents, and cleaning solvents at:

Davis-Monthan Air Force Base
 5285 East Madera Street
 Davis-Monthan AFB, AZ 85707

Applicable Devices/Processes

| Units | PDEQ Source # | Facility | Source Description |
|--------|---------------|----------|--|
| one(1) | 5309-03 | 5309 | Make: W. Miller Co. Paint Booth Primary Use: coating award plaques and small furniture |
| one(1) | 7327-01 | 7327 | Make: DeVilbiss Paint Booth Primary Use: painting aerospace ground equipment and aircraft parts |
| one(1) | 7213-01 | 7213 | Make: JBI Paint Booth Primary Use: proposed replacement for existing booth 7327-01 |
| one(1) | 4531-01 | 4531 | Make: Binks Paint Booth Primary Use: painting of automobiles by owners - hobby shop |
| one(1) | 5255-01 | 5255 | Make: Paint Hangar (large building) Primary Use: painting aircraft |
| one(1) | 5259-01 | 5259 | Make: Binks Paint Booth Primary Use: painting aerospace ground equipment and aircraft parts |
| one(1) | 0136-02 | 136a | Make: Binks Paint Booth Primary Use: painting aerospace ground equipment and aircraft parts |
| one(1) | 4713-01 | 4713 | Make: Paint Booth, manuf. unknown Primary Use: painting trucks and heavy equipment |

| Units | PDEQ Source # | Facility | Source Description |
|-------|---------------|----------|---|
| area | 0000-01 | Various | Nonbooth paint/solvent/adhesives use at D-M AFB (excludes facilities maintenance) |
| area | 0000-02 | Various | Non-booth paint/solvent/adhesives use at AMARC ¹ (excludes facilities maintenance) |
| area | 7428-01 | 7428 | SprayLat® Application at AMARC |
| area | 7425-02 | 7425 | Wash Rack area at AMARC |

¹ Aerospace Maintenance and Regeneration Complex: A separate portion of the D-M AFB installation, but within the common boundary

Total surface coating operations at this location: 12

Process Description

Davis-Monthan AFB and AMARC operate a variety of surface coating operations for the purpose of maintaining and preserving aircraft, vehicles, and other equipment. Numerous specialized maintenance shops basewide utilize HAP-containing materials including surface coatings, thinners, adhesives, surface prep solvents, and cleaning solvents. Some activities may generate solid HAPs.

- A. Affected Emission Source Classification: Synthetic Minor for Total Federal Hazardous Air Pollutants (HAPs) and Individual HAPs, Stationary Source.
- B. Approved Alternate Operating Scenarios (17.12.180.A.11.) - **NONE**

II. EMISSION LIMITATIONS AND STANDARDS (17.12.180.A.2.):

A. Emission limitations: Pursuant to Pima County Code (17.12.220), the permittee shall emit no more than **14.64** tons per year of combined HAPs and no more than **7.18** tons per year of any single HAP, on a rolling 12 calendar month basis, respectively. The permittee may issue any HAP-containing material for use basewide, provided the emission limits set forth in this paragraph are not exceeded, and that any other applicable requirements are complied with. **[THIS IS A FEDERALLY ENFORCEABLE AND MATERIAL PERMIT CONDITION]:**

B. Compliance With Emissions and Standards: Synthetic Minor Source Permit Conditions: Authority for these permit conditions is in accordance with voluntary emission limit reductions taken pursuant to 17.12.220. **[FEDERALLY ENFORCEABLE REQUIREMENTS].**

- 1. The permittee shall establish before September 1, 1998 and maintain an approved

Monthly Issues Report (MIR) system to ensure that the types and quantities of all HAP-containing materials purchased and issued for use at the facility are reported. The MIR shall contain at least the following elements for each category of HAP emissions described in paragraphs II.A. **[MATERIAL PERMIT CONDITION, FEDERALLY ENFORCEABLE]**. (17.12.220).

a. The permittee may choose to track HAP emissions on an issues basis or on an as used basis. The MIR shall clearly state that the log is an “as used log” or an “issue log”. In cases where permittee chooses to track HAP emissions on an issues basis rather than on an as used basis, an “issue” shall be deemed to have occurred when possession of a material which has been purchased for use at the facility is transferred to the requestor.

b. Each MIR shall include all HAP species contained in materials issued or used, as applicable, at the facility, as determined in II.B.1.c of this Part.

c. The HAP content (percent by weight) of a material that is issued or used, as applicable, at the facility shall be determined through one of the following methods:

(1) Use of Material Safety Data Sheets (MSDS). If the HAP content for a material is specified as a range of concentrations in the MSDS, the highest concentration specified in the range shall be used to determine HAP content of that material.

(2) A manufacturer’s certification of HAP content.

(3) The methods set forth in 40 CFR Part 60 Appx. A.

(4) Standard analytical methodology published by ASTM or EPA.

2. Every product issued or used, as applicable, must be analyzed for HAP(s) content, and it's HAP(s) content recorded per VIII.D.7 of this part.

3. All products issued or used, as applicable, will be assumed to emit all of it's volatile portion when it is used.

4. Monthly non-volatile HAP emissions resulting from the issue or use, as applicable, of sprayed surface coatings shall be computed as follows:

$$\text{NONVOLATILE HAP EMISSIONS} = \{[\text{PRODUCT USAGE, GAL/MO}] - [\text{PRODUCT WASTE, GAL/MO}]\} \times [\text{HAP CONTENT AS APPLIED, LB/GAL}] \times [1 - \text{TRANSFER EFF}]$$

where transfer efficiency will be assumed to be:

| Application Method | Transfer Efficiency |
|--------------------------|---------------------|
| Aerosol Can | 30% |
| Air Spray Gun | 30% |
| Airless Spray Gun | 45% |
| Air-Assisted Airless | 45% |
| Electrostatic Gun | 70% |
| High-Volume Low-Pressure | 70% |

5. Permittee shall not be allowed to change the method of logging once established. That is,

an “issue log” shall not be allowed to be changed to an “as used” type of log, or vice versa, once the log has been implemented for a particular operation.

III. EMISSION LIMITS FOR ALTERNATE OPERATING SCENARIO PURSUANT TO 17.12.180.A.: - **NONE**

IV. FUGITIVE EMISSION LIMITATIONS: The permittee shall not use open containers for the storage or disposal of solvents.(17.16.400.A.)

V. ACID DEPOSITION CONTROL (17.12.180.A.5): Any emissions in excess of any allowances lawfully held by the permittee under Title IV of the Clean Air Act or Title 17 of the Pima County Code are prohibited. - **Not applicable**

VI. SPECIAL CONDITIONS APPLICABLE TO EMISSIONS TRADING (17.12.180.A.12) - **NONE**. (See Part A of this permit).

VII. COMPLIANCE PLAN (17.12.210)

A. Compliance Schedule for Operations Not in Compliance (17.12.210.A.7.iii.) - **NONE**

B. Future Applicable Requirements Becoming Effective During the Permit Term - **NONE KNOWN** (17.12.210.A.7.ii.)

1. This facility is subject to federally enforceable limits on emissions of hazardous air pollutants (HAPs) to levels which restrict facility-wide HAP emissions to levels below the federal thresholds for major HAP source status. As such, this facility is not currently subject to any federal National Emissions Standards for Hazardous Air Pollutants (NESHAP) or maximum achievable control technology (MACT) requirements.

VIII. EMISSION TESTING & MONITORING REQUIREMENTS (17.12.180.A.)

A. Monitoring and/or Analysis Test Methods and Procedures

Refer to VIII.D. of this Part.

B. Equipment Installation and/or Maintenance Requirements:

1. Paint spray operations, other than for architectural or spot painting purposes, shall be conducted in suitable enclosures equipped with controls capturing no less than 96 percent of the over spray, where the over spray is directed to either: (17.16.400.C.1)

- a. a filtering system designed for controlling the particulate portion of the over spray,
- b. a commercially designed water curtain or equivalent,
- c. a baffle system designed for the purpose, or
- d. any other system which can be shown to meet the over-spray control

requirement.

2. For the purpose of this permit "suitable enclosure" as described in VIII.B.1 means a confined area, completely enclosed, where all exhaust from the enclosure is directed through one or more ducts equipped with controls as described in VIII.B.1.a through d above.

C. Quality Assurance Plan (17.12.070) - **None**.

D. Recordkeeping Requirements (17.24.020)

1. For each enclosed painting operation, the permittee shall keep a daily log of the following for all HAP containing products issued or used, as applicable, but not limited to those associated with the surface coatings, thinners, adhesives, surface prep solvents, and cleaning solvents operations covered by this permit [FEDERALLY ENFORCEABLE]:

a. The product type.

b. The product name and number.

c. The manufacturer's name.

d. The volume of the product issued or used, as applicable, each day.

e. The percent by weight of total HAPs in each product using the upper bound of the range of HAPs cited by the manufacturer.

f. The percent by weight of each individual HAP in each product using the upper bound of the individual HAP content cited by the manufacturer.

Note: e. And f. Above may be added to the usage log in the permittee's MIR.

2. For non-booth areas, the permittee shall keep a daily log of the following for each product all HAP containing products issued or used, as applicable, but not limited to those associated with solvents, cleaners, and adhesives containing volatile HAPs [FEDERALLY ENFORCEABLE]:

a. The date and quantity of all issuance or usage of such materials, as applicable,

b. A record of the HAPs contained in these materials, as recorded from the material safety data sheet for each material issued or used, as applicable.

For the purposes of HAP emissions calculations described in VIII.D.4 of this permit, all products will be assumed to be used during the calendar month that they are issued, or used, as applicable, to the using activities or shops. [FEDERALLY ENFORCEABLE]

3. Permittee shall keep the logs and issuance records described in VIII.D.1 and VIII.D.2 in a form which allows for easy verification of compliance with the twelve month rolling total

requirements herein. [FEDERALLY ENFORCEABLE]

4. A summary of individual and aggregate HAP emissions for each month and the previous eleven months shall be completed within forty five (45) calendar days after the end of the month. [FEDERALLY ENFORCEABLE]

5. All of the records required by this Part shall be kept for a minimum of five years and made available for inspection upon request by a representative of the Control Officer. [FEDERALLY ENFORCEABLE]

6. The permittee shall also keep on site the material safety data sheet, or other documentation pursuant to II.B.1.b of this Part, for each material issued or used, as applicable. Where such information is not available, the weight of the material issued, or in the case of the auto hobby shop facility 4531, logged, shall be recorded as 100% HAP and added to the largest single HAP otherwise recorded to arrive at total emissions of a single HAP. [FEDERALLY ENFORCEABLE]

7. The permittee shall keep the following files and make them available to the control officer or his representatives upon request [FEDERALLY ENFORCEABLE];

- a. The original MSDS for each material used or issued, as applicable, in any process;
- b. Analyses of each MSDS or equivalent that show HAP content of each material and document how these contents were derived;
- c. Monthly issuance of each material;
- d. Monthly summaries of HAP by species.

E. Reporting Requirements (17.24.040)

1. Reporting for the Affected Source or Process - **None**

2. Emissions Inventory Reporting (17.12.320, 17.24.030) - Every source subject to a permit requirement shall complete and submit to the control officer an annual emissions inventory questionnaire pursuant to 17.12.320 contained in Appendix A of this part

3. Permittee shall submit to the Control Officer a compliance certification which describes the compliance status of the source with respect to each permit condition.[PCC 17.12.180.A.5. and PCC 17.12.210.A.2.]

4. Semiannual compliance certification reports shall be due on February 15th and August 15th of each year and shall cover the period July 1st through December 31st and January 1st through June 30th, respectively. The first semiannual report may not cover a six-month period.

5. In addition to the date of the reporting period, each compliance certification shall include the following:

- a. Identification of each term or condition of the permit that is the basis of the certification;
- b. Compliance status of each applicable requirement;
- c. Whether compliance was continuous or intermittent;
- d. Method(s) used for determining the compliance status of the source, currently and over the reporting period;
- e. All instances of deviations from permit requirements reported pursuant to Section XI.B of this Part;
- f. A progress report on all outstanding compliance schedules submitted pursuant to Section XI.C of this Part.

6. A copy of all compliance certifications for Class I permits shall also be submitted to the EPA Administrator.

IX. CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS

[PCC 17.12.210.A.3.]

Any document required to be submitted by this permit, including reports, shall contain a certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required by this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

PART B-04

SOURCE SPECIFIC PERMIT CONDITIONS
Fuel Storage Tanks

PERMIT NO: 1701

GENERAL NOTE: For the text of definitions and regulations from Title 17 of the Pima County Code which are applicable to this permit refer to Appendix A of Part B herein

I. APPLICABILITY: EXISTING PETROLEUM LIQUID STORAGE TANKS FOR GASOLINE AND OTHER FUELS (NOT USED FOR STAGE II DISPENSING)

A. Affected Emission Source or Process: This Part B is issued for the revision of equipment specific requirements for the operation of fuel loading apparatus meeting the definition of an existing source as defined in Appendix A.

Davis-Monthan Air Force Base
5285 East Madera Street
Davis-Monthan AFB, AZ 85707

Applicable Devices/Processes

| # of Units | PDEQ ID # | Facility Number | Source Description | Fuel Type |
|------------|-----------|-----------------|---|-----------|
| 1 | 0075-01 | 75 | 30,000 gal. AST | Diesel |
| 1 | 0075-02 | 75 | 15,000 gal. AST | Diesel |
| 1 | 0202-05 | 202 | 50,000 gal. UST | Diesel |
| 2 | 0202-06 | 202 | 39,500 gal. USTs with submerged fill and Stage I vapor recovery | Gasoline |
| 2 | 0224-01 | 224 | 2,500 gal. ASTs | Jet Fuel |
| 6 | 0207-02 | 207 | 50,000 gal. USTs | Jet Fuel |
| 9 | 0206-03 | 206 | 39,500 gal. USTs | Jet Fuel |
| 2 | 0202-04 | 202 | 39,500 gal. USTs | Jet Fuel |
| 1 | 0117-02 | 117 | 2,814,000 gal. Internal Floating Roof Tank | Jet Fuel |
| 1 | 0117-03 | 117 | 2,814,000 gal. Internal Floating Roof Tank | Jet Fuel |
| 1 | 0117-04 | 117 | 2,814,000 gal. Internal Floating | Jet Fuel |

| | | | | |
|---|---------|-----|-----------------|----------|
| | | | Roof Tank | |
| 1 | 0206-02 | 206 | 50,000 gal. UST | Jet Fuel |

B. Affected Emission Source Classification: Synthetic Minor for Federal Hazardous Air Pollutants (HAPs) and Individual HAPs; Stationary source.

C. Approved Alternate Operating Scenarios (17.12.180.A.11.) **NONE**

II. EMISSION LIMITATIONS AND STANDARDS (17.12.180.A.2.)

A. Emission Limits and Standards (17.12.220)

1. Allowable emission limits: The following emission rates for the loading of gasoline, JP-8, and Diesel fuel shall not be exceeded. They were determined based on standard EPA AP-42 emission factors, U.S. EPA Tanks 3.1, and an EPA approved HAP fraction (25% of VOC emissions). The fraction of total HAPs emitted assigned to an individual HAP are based on a PDEQ survey.

| Emissions (As a 12-month rolling total) | |
|--|-----------------|
| Pollutant | (Tons per Year) |
| Total HAPs | 1.27 |
| Benzene | 0.13 |
| Toluene | 0.35 |
| Ethylbenzene | 0.13 |
| Xylene | 0.44 |
| n-Hexane | 0.22 |

Notes: The emissions from all fuels allowed to be stored and distributed at this facility are assumed to be equal to fuel types presented in the “Applicable Sources” table presented in Section I.A of this permit.

2. All gasoline storage tanks (as identified by fuel type in the table of “Applicable Sources” in Section I.A of this permit) shall be equipped with a Stage I vapor recovery system. (ARS 41.2132.B). **[THIS IS A FEDERALLY ENFORCEABLE REQUIREMENT AND A MATERIAL PERMIT CONDITION]**

3. All pumps and compressors which handle volatile organic compounds shall be equipped with mechanical seals or equivalent pursuant to 17.16.230.D. and 17.16.520.3.

B. Compliance with emission limits and standards:

1. Authority for these permit conditions for new sources is pursuant to the Federally

Enforceable new source review permit regulations which were in effect prior to amendments to Title 17 of the Pima County Code (Ord. 1993 - 128 1) as provided by the Arizona State Implementation Plan and A.R.S. 49-404.C.] **[THIS IS A FEDERALLY ENFORCEABLE REQUIREMENT]**; and, since this is a synthetic minor source, these permit conditions are also **[MATERIAL PERMIT CONDITIONS]**

a. Authority for these permit conditions for existing **synthetic minor** sources is also provided in accordance with voluntary emission limit reductions taken pursuant to **17.12.220. [THIS IS A FEDERALLY ENFORCEABLE REQUIREMENT AND MATERIAL PERMIT CONDITION]**

(1) Fuel products allowed to be stored and distributed at this facility shall be limited to:

- (a) Motor Vehicle gasolines
- (b) Number 2 through 6 fuel oils
- (c) Gas turbine fuels numbers JP-5 and JP-8 (vapor pressure <1.0 psia)
- (d) Diesel fuel oils numbers 2-D and 4-D

(2) Combined throughput of fuels for all facilities (as identified in the table 2 of “Applicable Sources” in Section I.A of this permit, shall not exceed the following limits (in gallons per year) based on a twelve month rolling total:

Gasoline: 1,000,000 gal/yr
Diesel: 2,000,000 “
JP-8: 150,000,000 “

The records maintained pursuant to Section VIII.D of this permit must reflect each tank facility’s activity.

2. All tanks used to store gasoline shall be equipped and operated with a Stage I vapor collection system consisting of a vapor-tight return line from the storage tank(s) or its vent(s) to the gasoline transport vehicle (17.12.220) **[THIS IS A MATERIAL PERMIT CONDITION]**

3. All system hardware and components conform to those systems and components certified by the State of California Air Resources Board (CARB). The Control Officer shall verify, by inspection, that the Stage I collection system is in place and operating at each affected tank.

The permittee shall perform the following in order to assure the integrity of each phase I vapor recovery system as identified in the table in I.A. of this Part:

- a. On a weekly basis:
 - i. Check with operating personnel for any known deficiencies,
 - ii. Check for leaks on suction and discharge piping, seals,

- packing glands, etc.,
 - iii. Tighten or replace loose, missing damaged nuts, bolts, or screws,
 - iv. Clean dispensing system equipment, and
 - v. Check hoses and nozzles for condition.
 - b. On a monthly basis:
 - i. Check pump operation; vibration, noise, overheating etc.
 - c. On a quarterly basis:
 - i. Check for corrosion on pump exterior and base plate, clean, prime & paint, and
 - ii. Pressure test system for leaks,
 - d. Semi-Annually:
 - i. Clean and repair tank vents, and
 - ii. Check drop tube seal, spring, and operability
 - e. Annually:
 - i. Check leak detector pressure relief setting, and
 - ii. Check leak detector operation.
 - f. Any equipment found needing repair or not functioning properly shall be repaired promptly.
 - g. Complete and maintain a maintenance record/report showing the dates, time of day, result, and action taken (if required) for each requirement identified in II.B.4.a through 4.f above.

C. Permit Shield(s): Compliance with the permit conditions of this permit shall be deemed compliance with the following applicable requirements, therefore constituting a permit shield from those requirements pursuant to 17.12.310. **NONE**

III. EMISSION LIMITS FOR ALTERNATE OPERATING SCENARIO PURSUANT TO
 17.12.180.a.11: **NO ALTERNATIVE OPERATING SCENARIOS ARE
 APPLICABLE TO THIS PERMIT**

IV. FUGITIVE EMISSION LIMITATIONS: The permittee shall ensure that no petroleum liquid is stored in an open storage containers or in any other stationary containers that do not minimize emissions of hydrocarbons to the atmosphere. (17.16.400.A)

V. ACID DEPOSITION CONTROL (17.12.180.A.5): Any emissions in excess of any allowances

lawfully held by the permittee under Title IV of the Clean Air Act or Title 17 of the Pima County Code are prohibited. **NOT APPLICABLE**

VI. SPECIAL CONDITIONS APPLICABLE TO EMISSIONS TRADING (17.12.180.A.12: **NONE**

VII. COMPLIANCE PLAN (17.12.210)

A. Compliance Schedule for Operations Not in Compliance (17.12.210.A.7.b.iii)**NONE**

B. Future Applicable Requirements Becoming Effective During the Permit Term - Subject to Specific Time Requirements; e.g. EPA promulgation of MACT or failure to promulgate MACT by mandated timelines (17.12.210.A.7.b.ii) **NONE**

VIII. EMISSION TESTING & MONITORING REQUIREMENTS (17.12.180.A)
[FEDERALLY ENFORCEABLE REQUIREMENTS]

A. Monitoring and/or Analysis Test Methods and Procedures:

Refer to VIII.D.1. of this Part. Permittee is responsible for maintaining and operating the equipment, to the maximum practicable extent, consistent with good practice for minimizing emissions pursuant to 17.28.060.B.7.

B. Equipment Installation and/or Maintenance Requirements:

Permittee shall ensure storage and loading equipment for gasoline are properly equipped (in operation, and in good working order) with a submerged filling device, balanced submerged filling device, or acceptable equivalent, for the control of hydrocarbon emissions. (P.C.C.17.16.230)

C. Quality Assurance Plan (17.12.070): **NOT APPLICABLE**

D. Recordkeeping Requirements:

1. To verify compliance with II.B.1.a.(1) and II.B.1.a.(2) of this Part, permittee shall keep and maintain an operation log for each fuel storage tanks showing the following (17.16.230.E): **[FEDERALLY ENFORCEABLE]**

a. Tank identification;

b. The type and quantity (in gallons) of fuel loaded through each tank; and

c. The total quantity (in gallons) of all fuels loaded into all tanks during the month of record, and the total quantity of all fuels loaded during the eleven (11) months prior to the month of record plus the month of record. The totals for each month shall be recorded by the end of the month following the month of record. If no fuel was

loaded through a particular tank during a given month, the records shall note that no fuel was distributed or loaded.

2. The permittee shall maintain records as required in XV.B. of Part A. The records shall be retained for a period of five (5) years, and shall be made available upon request to the Control Officer.

E. Reporting Requirements:

1. Special Reporting for the Affected Source or Process: Permittee shall promptly submit written reports to the Control Officer of any instances of deviation from permit requirements, all required monitoring and recordkeeping requirements every six months. (refer to XIV.A and XVIII.B of Part A of this permit).

2. Emissions Inventory Reporting (17.12.320): Every source subject to a permit requirement shall complete and submit to the control officer an annual emissions inventory questionnaire pursuant to 17.12.320 contained in Appendix A of this permit.

3. Permittee shall submit to the Control Officer a compliance certification which describes the compliance status of the source with respect to each permit condition.[PCC 17.12.180.A.5. and PCC 17.12.210.A.2.]

4. Semiannual compliance certification reports shall be due on February 15th and August 15th of each year and shall cover the period July 1st through December 31st and January 1st through June 30th, respectively. The first semiannual report may not cover a six-month period.

5. In addition to the date of the reporting period, each compliance certification shall include the following:

- a. Identification of each term or condition of the permit that is the basis of the certification;
- b. Compliance status of each applicable requirement;
- c. Whether compliance was continuous or intermittent;
- d. Method(s) used for determining the compliance status of the source, currently and over the reporting period;
- e. All instances of deviations from permit requirements reported pursuant to Section XI.B of this Part;
- f. A progress report on all outstanding compliance schedules submitted pursuant to Section XI.C of this Part.

6. A copy of all compliance certifications for Class I permits shall also be submitted to the EPA Administrator.

IX. CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS
[PCC 17.12.210.A.3.]

Any document required to be submitted by this permit, including reports, shall contain a certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required by this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

PART B-05
SOURCE SPECIFIC PERMIT CONDITIONS
Miscellaneous Activities
(Revised 06/29/98, 1998)

PERMIT NO: 1701

GENERAL NOTE: For the text of definitions and regulations from Title 17 of the Pima County Code which are applicable to this permit refer to Appendix A of Part B herein

I. APPLICABILITY:

A. Affected Emission Source or Process: This Part B is issued for the revision of an existing permit for the operation of Abrasive Blasting apparatus, Emergency Generators, Portable Welders, Engine Driven Fire Pumps, Jet Engine Test Cells, and an Incinerator meeting the definition of an existing source as defined in Appendix A.

Davis-Monthan Air Force Base
5285 East Madera Street
Davis-Monthan AFB, AZ 85707

Applicable Devices/Processes

| Source | <i>This column added</i> | | | |
|--------------------------|--------------------------|--------------------|------------|------|
| Number | Hp | Name | Location | Fuel |
| ~~~~~ | | | | |
| Abrasive Blasting | | | | |
| ===== | | | | |
| 1244-02 | NA | Abrasive Blaster | Bldg. 1244 | NA |
| 4531-02 | NA | “ ” | Bldg. 4531 | “ |
| NA | “ | ” | Bldg. 5045 | “ |
| 5254-01 | NA | “ ” | Bldg. 5254 | “ |
| 5254-02 | NA | “ ” | “ | ” |
| 5045-03 | NA | “ ” | Bldg. 5045 | “ |
| 7401-10 | NA | Carbon Remover | Bldg. 7401 | “ |
| 7402-02 | NA | Paint Remover Tank | Bldg. 7401 | “ |
| 7401-04 | NA | Abrasive Blaster | “ | ” |
| 7401-05 | NA | “ ” | “ | ” |
| 7401-06 | NA | “ ” | “ | ” |
| 7401-08 | NA | “ ” | “ | ” |
| 7415-01 | NA | “ ” | Bldg. 7415 | “ |

Jet Engine Test Cells

| | | | | |
|---------|----|---------------------------------|------------|-----|
| 0225-01 | NA | 355 CRS-Jet Engine Test Cell | Bldg. 225 | Jet |
| 7099-01 | NA | AMARC - Jet Engine Test Cell | Bldg. 7099 | Jet |

Non-AGE Internal Combustion Engines

=====
 All non-AGE engines and engine driven equipment using gasoline and/or diesel fuels and sited throughout the facility.

Chiller Engines

| | | | | |
|---------|-----|---------------|--------------|-------------|
| 5101-01 | 451 | N.G IC Engine | Main Chiller | Natural Gas |
| 5101-02 | 451 | N.G IC Engine | Main Chiller | “ |

Incinerator

| | | | | |
|---------|----|---------------------------------|------------|-------------|
| 3426-04 | NA | Classified Waste Incinerator | Bldg. 3426 | Natural Gas |
|---------|----|---------------------------------|------------|-------------|

Other Equipment

| | | | | |
|---------|------|--|---------------|------------------|
| 5255-02 | NA | Boilers | EMS Hanger | Natural Gas |
| ST-35 | ---- | Soil Vapor Extraction System (SVES) | J-3 Pumphouse | Jet Fuel/Propane |

B. Affected Emission Source Classification: Synthetic Minor Source for Total Federal Hazardous Air Pollutants (HAPs) and Individual HAPs.

C. Approved Alternate Operating Scenarios (17.12.180.A.11.): **NONE**

II. EMISSION LIMITATIONS AND STANDARDS (17.12.180.A.2.)

A. Emission Limits and Standards:

1. Allowable emission limits: The following emission rates for the equipment listed in section I.A. shall not be exceeded. They were determined based on standard EPA AP-42 emission factors and other USEPA sources.

2. Sulfur dioxide (SO₂) emissions shall not exceed 1.0 pound per million Btu heat input when low sulfur oil is fired pursuant to 17.16.340.F. **[THIS IS A FEDERALLY ENFORCEABLE REQUIREMENT]**

3. SO₂ emissions shall not exceed 2.2 pounds per million Btu heat input when high sulfur oil is fired pursuant to 17.16.340.G. **[THIS IS A FEDERALLY ENFORCEABLE REQUIREMENT]**

4. Permittee shall burn only low sulfur oil in all non-AGE engines and engine driven equipment using Diesel fuel throughout the facility pursuant to 17.16.340.H. The sulfur content of the fuel shall be determined using ASTM Method D-129-91 (Test Method for Sulfur in Petroleum Products) (General Bomb Method), or equivalent ASTM test method applicable to determining the sulfur content of liquid fuels. **[THIS IS A FEDERALLY ENFORCEABLE REQUIREMENT]**

5. Allowable Emissions (17.12.220):

Permittee shall not exceed the following emission rates (as a 12 month rolling total)

| <u>Pollutant</u> | <u>Tons per Year</u> | | | | |
|------------------------|----------------------|-----------------------|------------------|--------------------------|-------------------|
| | <u>Total HAP</u> | <u>Individual HAP</u> | <u>Total HAP</u> | <u>Lb/Day Single HAP</u> | <u>Lb/Day VOC</u> |
| Total HAP..... | 6.013 | 1.31 | NA | NA | NA |
| Abrasive Blasting..... | 0.096 | NA | NA | NA | NA |
| Jet Test HAPs..... | 3.011 | NA | NA | NA | NA |
| Emergency Generator... | 1.187 | NA | NA | NA | NA |
| Degreasers..... | 1.060 | NA | NA | NA | NA |
| Chiller Engines..... | 0.006 | NA | NA | NA | NA |
| Incinerator..... | 0.043 | NA | NA | NA | NA |
| SVES | 0.610 | 0.25 | 3.35 | 1.37 | 15.22 |

[THIS IS A FEDERALLY ENFORCEABLE REQUIREMENT AND MATERIAL PERMIT CONDITION]

B. Compliance with Emission Limits and Standards:

1. Synthetic Minor Source Permit Conditions: Authority for these permit conditions for both new and existing **synthetic minor** sources is also provided in accordance with voluntary emission limit reductions taken pursuant to 17.12.220. **[THIS IS A FEDERALLY ENFORCEABLE REQUIREMENT AND MATERIAL PERMIT CONDITION]**

a. Total fuel usage for all Non-AGE Internal Combustion Engines in I.A. of this Part shall not exceed the following amounts in any twelve month rolling period:

| <u>Engine Type</u> | <u>Maximum Gallons Fuel Per 12-mo. Rolling Total</u> |
|--------------------------|--|
| All Diesel Fired Engines | 200,000 gal |

All Gasoline Fired Engines 50,000 gal

Calculation Basis and Assumptions:

Emission factor for aldehydes for both gasoline and Diesel fuels per AP-42, Table 3.3-2 = 0.07 lbs per MM Btu fuel input

Heat content of gasoline assumed to be 130,000 Btu per gallon

Heat content of Diesel assumed to be 137,000 Btu per gallon

- i. The permittee shall demonstrate compliance with the fuel limits established in II.B.1.a. of this Part by establishing before September 1, 1998 and maintaining an approved Monthly Issues Log (MIL) system to ensure that quantities of all fuels purchased or issued for use in all Non-AGE Internal Combustion Engines, basewide, are reported. The MIL shall contain at least all of the elements contained in VIII.D.4. of this Part. **[MATERIAL PERMIT CONDITION, FEDERALLY ENFORCEABLE]**. (17.12.220).
 - b. The permittee shall not, in any rolling twelve month period, perform more than 570 engine tests at the Base Side Test Cell, PDEQ #0255-001, or more than 1,643 engine tests at the AMARC facility, PDEQ # 7099-001.
 - c. The incinerator may only be operated during daylight hours **(17.16.170)**.
 - d. Abrasive blasting with the equipment listed is not limited by this permit revision.
 - e. Degreasing operations using the equipment listed above are not limited by this permit revision.
 - f. Recordkeeping requirements are contained in VIII.D of this Part.
2. Permittee shall be deemed in compliance with II.A.2 and II.A.3 by demonstrating that only Diesel fuel containing less than 0.9 percent sulfur by weight was fired in the applicable generators as specified in II.A.4 of this Part. In addition, exclusive use of such low sulfur fuel shall exempt the permittee from the provisions of 17.16.340.F, G, I, and J. Recordkeeping requirements for sulfur content in the fuel are contained in VIII.D. of this Part.
3. The permittee shall perform, at least monthly, the following with regards to the SVES ;
- a. Measure the outlet flow rate (F_{out}) in CFM of the exhaust stack of the SVES system outlet;
 - b. Measure the outlet concentration (C) of total petroleum hydrocarbons (TPH) in PPMv in the exhaust stack of the SVES system outlet using a flame ionization detector, photoionization detector, or equivalent device capable of measuring within 10 percent. EPA Test Methods 8020 and 8020A are appropriate test methods for this purpose.

- c. Measure the temperature of the exhaust at the same point at which the flow and concentration are measured;
- d. Calculate the emissions of TPH in pounds per day by the following formula;

$$E = F_{std} \times (60\text{min}/\text{hour}) \times (24\text{hours}/\text{day}) \times (C/1000000) \times (80/29)$$

Where;

E = emissions of TPH in lbs/day

F_{std} = Flow of gas in standard cubic feet, computed as follows;

$$F_{std} = F_{out} \times (T_{std}/T_{out}) \times (P_{out}/P_{std})$$

$$T_{std} = 528 \text{ }^\circ\text{R}, P_{out} = 27.35 \text{ inches Hg}, P_{std} = 29.92 \text{ inches Hg}$$

F_{out} = Measured flow rate in CFM

T_{out} = measured exhaust temperature in degrees Rankine (°F+460)

C = measured concentration of TPH in PPM_v

80 is the pound vapor molecular weight of JP-4 per AP-42 and 29 is that of air. P_{out} is the pressure at 2500 feet altitude. An average station barometric pressure of 27.35 inches Hg may be used for P_{out}. T_{std} is 68 °F+ 460 = 528°R.

- e. Calculate the emissions per day of total HAPs by multiplying the number arrived at in d. by 0.22, and for individual HAP by 0.09. Twenty two percent is the highest portion of the TPH emissions that are total HAPs. HAPs percent was determined by thirteen test results run on the exhaust gasses by a contractor working for Davis-Monthan. The individual HAP is toluene from the same test, and comprises slightly less than 9% of total VOC emissions. Nine percent was used to calculate the single HAP emissions from this source.

For the purpose of this permit, an exceedance of the 15.22 lb/day total VOC emission rate shall be considered an exceedance of both the 3.35 lb/day total HAP emission limit and the 1.37 lb/day emission limit in II.A.5 of this Part unless permittee conducts concurrent testing for HAP, in which case the HAP data shall be used to determine compliance.

- f. Permittee shall operate, maintain, and calibrate the flow monitoring device, thermometer(s), and organic vapor monitoring equipment as specified by the manufacturer.
- g. Permittee shall operate and maintain the SVES, including the internal combustion

engine (ICE) and catalytic converter in accordance with the manufacturer's instructions.

- h. Permittee shall inspect system equipment at least once every week to assure that is maintained in good operating condition. All necessary repairs shall be performed promptly.

C. Permit Shield(s) Compliance with the permit conditions of this permit shall be deemed compliance with the following applicable requirements, therefore constituting a permit shield from those requirements pursuant to 17.12.310: **17.16.340.F, G, I, and J (as amended Ord. 1993-128 § 4, 1993)**

III. EMISSION LIMITS FOR ALTERNATE OPERATING SCENARIO PURSUANT TO 17.12.180.A.11:
NONE

IV. FUGITIVE EMISSION LIMITATIONS:
THIS HEADING NOT USED IN THIS PART

V. ACID DEPOSITION CONTROL (17.12.180.A.6.):
Any emissions in excess of any allowances lawfully held by the permittee under Title IV of the Clean Air Act or Title 17 of the Pima County Code are prohibited.
NOT APPLICABLE

VI. SPECIAL CONDITIONS APPLICABLE TO EMISSIONS TRADING (17.12.180.A.12):
NONE

VII. COMPLIANCE PLAN (17.12.210):

A. Compliance Schedule for Operations Not in Compliance (17.12.210.A.7.b.iii.)
NOT APPLICABLE

B. Future Applicable Requirements Becoming Effective During the Permit Term - Subject to Specific Time Requirements; e.g. EPA promulgation of MACT or failure to promulgate MACT by mandated timelines (17.12.210.A.7.b.ii.)
NOT APPLICABLE

VIII. EMISSION TESTING & MONITORING REQUIREMENTS (17.12.180.A.)
[FEDERALLY ENFORCEABLE REQUIREMENTS]

A. Monitoring and/or Analysis Test Methods and Procedures: Should the permittee desire to test, or be required to test the equipment to demonstrate compliance with II.A.3, the permittee shall contact the control officer for testing requirements.

B. Equipment Installation and/or Maintenance Requirements:

Permittee is responsible for maintaining and operating the equipment, to the maximum practicable extent, consistent with good practice for minimizing emissions. (17.12.220).

C. Quality Assurance Plan (17.12.070):

NOT APPLICABLE

D. Recordkeeping Requirements:

1. The permittee shall maintain records as required in XV.B of Part A.
2. The number of jet engine tests on engine test cells shall be recorded, by test cell at each location.
3. For the fuel issued to all Non-AGE Internal Combustion Engines permittee shall maintain a log showing the maximum sulfur content in percent by weight for each load of fuel purchased, and shall include the following:
 - a. the dates that fuel was purchased or delivered;
 - b. the basis (fuel analysis method) for the determination of the sulfur content.
4. A monthly Issues Log (MIL) for all Non-AGE Internal Combustion Engines shall be maintained showing:
 - a. For all Non-AGE Internal Combustion Engines in I.A. of this Part, Permittee shall assign each engine or grouping of engines into the equivalent of an "account". The number of engines in an individual account, the total number of accounts, and the design or nomenclature of each account is at the discretion of the permittee.
 - b. Each account shall be fuel specific; that is, Diesel and gasoline engines cannot share a single account.
 - c. Each account shall be specifically identified by name or number by the permittee.
 - d. For each account the permittee shall list each engine in that account along with the source number (engine identification number), horsepower rating, and location of each engine.
 - e. Permittee shall be responsible for maintaining the inventory of engines in each account. Each addition or deletion of an engine within an account shall be made no later than forty five (45) days after the month during which the change occurs, and a record thereof shall be so noted within the MIL account, along with the effective date of the change. Such changes shall be made in accordance with provisions of Title 17 of the Pima County Code.
 - f. For the purposes of this paragraph all fuels "issued" will be assumed to be used during the calendar month that they are issued.
 - g. The permittee shall keep a daily log, and compile the following in the MIL.

- i. For each account, the date and quantity, in gallons, of fuel distributed. In cases where the permittee prefers to account for fuel usage based on logging hours of operation of individual engines in lieu of directly tracking fuel dispensed, the permittee shall log the hours of operation of each engine in the account.
 - ii. A summary of individual accounts and total gallons of fuel, by fuel type, for each month and the previous eleven months shall be completed within forty five (45) calendar days after the end of the month. For those engines in accounts where engine operating hours are logged, a summary of total horsepower-hours of operation in individual accounts, by fuel type, for each month and the previous eleven months shall be completed within forty five (45) calendar days after the end of the month. Each summary shall include the conversion of horsepower-hours operated to gallons of fuel used based on:
 - a) determining horsepower-hours based on the sum of the number of hours, and fraction thereof, that each engine was operated during the month multiplied by the maximum rated horsepower of the applicable engine;
 - b) converting total monthly horsepower-hours to total monthly gallons of fuel used using the appropriate heating value per gallon of fuel from II.B.1.a. of this Part, and a conversion value of 7,000 Btu/hp-hr
 - iii. Permittee shall keep the logs and issuance records described herein in a form which allows for easy verification of compliance with the twelve month rolling total requirements.
 - iv. The permittee shall keep the MIL (such files may be kept in hardcopy form or as computer files) and make them available to the control officer or his representatives upon request. The record of each fuel issue transaction from the issuing source must be retained as received from the issuer.
5. Records shall be kept of all provisions for monitoring and testing the SVES required pursuant to II.B.3 of this Part. All records shall include the date, applicable test method, parameter tested or monitored, name of the person conducting the test, maintenance conducted, calibration results, weekly inspections, etc. Such records for each month and the previous eleven months shall be completed within forty five (45) calendar days after the end of the month.
- 6 All of the records required by this Part shall be kept for a minimum of five years and made available for inspection upon request by a representative of the Control Officer.

E. Reporting Requirements

1. Special Reporting for the Affected Source or Process: Permittee shall promptly submit written reports to the Control Officer of any instances of deviation from permit requirements, and submit all required monitoring and recordkeeping requirements every six months. (refer to XIV.A and XVIII.B of Part A of this permit).

2. Emissions Inventory Reporting (17.12.320): Every source subject to a permit requirement shall complete and submit to the control officer an annual emissions inventory questionnaire pursuant to 17.12.320 contained in Appendix A of this part.
3. Permittee shall submit to the Control Officer a compliance certification which describes the compliance status of the source with respect to each permit condition.[PCC 17.12.180.A.5. and PCC 17.12.210.A.2.]
4. Semiannual compliance certification reports shall be due on February 15th and August 15th of each year and shall cover the period July 1st through December 31st and January 1st through June 30th, respectively. The first semiannual report may not cover a six-month period.
5. In addition to the date of the reporting period, each compliance certification shall include the following:
 - a. Identification of each term or condition of the permit that is the basis of the certification;
 - b. Compliance status of each applicable requirement;
 - c. Whether compliance was continuous or intermittent;
 - d. Method(s) used for determining the compliance status of the source, currently and over the reporting period;
 - e. All instances of deviations from permit requirements reported pursuant to Section XI.B of this Part;
 - f. A progress report on all outstanding compliance schedules submitted pursuant to Section XI.C of this Part.
6. A copy of all compliance certifications for Class I permits shall also be submitted to the EPA Administrator.

IX. CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS

[PCC 17.12.210.A.3.]

Any document required to be submitted by this permit, including reports, shall contain a certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required by this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

PART B-06
SOURCE SPECIFIC PERMIT CONDITIONS
Turbine Powered Aerospace Ground Support Equipment (AGE)
(Revised 06/29/98, 1998)

PERMIT NO: 1701

GENERAL NOTE: For the text of definitions and regulations from Title 17 of the Pima County Code which are applicable to this permit refer to Appendix A of Part B herein

I. APPLICABILITY:

A. Affected Emission Source or Process: This Part B is issued for the revision of an existing permit for the operation of turbine driven aerospace ground equipment meeting the definition of an existing source as defined in Appendix A.

Davis-Monthan Air Force Base
5285 East Madera Street
Davis-Monthan AFB, AZ 85707

Applicable Devices/Processes

| Source | | | | | |
|-----------------|------------|------------|------|----------|-------------|
| Source Number # | Hp (EQUIS) | # of Units | Name | Location | |
| 7222-01 | 28517 | 150 | 17 | AMARC | Bldg. #7222 |
| 7222-02 | 28518 | 150 | 4 | “ | ” 4712, 125 |
| 4712-01 | 28311 | 160 | 9 | 355 EMS | “ ” |
| 4712-06 | 28313 | 50 | 4 | “ | ” “ |
| 4712-07 | 28330 | 150 | 2 | “ | ” “ |
| 0128-01 | 28500 | 150 | 2 | 120 FG | “ 125 |

B. Affected Emission Source Classification: Class I; Major Source for Criteria Pollutants; Synthetic Minor Source for Total Federal Hazardous Air Pollutants (HAPs) and Individual HAPs; Stationary source.

C. Approved Alternate Operating Scenarios (17.12.180.A.11.): **NONE**

II. EMISSION LIMITATIONS AND STANDARDS (17.12.180.A.2.)

A. Emission Limits and Standards:

1. Allowable emission limits: The following emission rates for gas turbines shall not be exceeded. They were determined from HAPs emission information contained in Davis-Monthan’s TV permit application. The ratio of the amount of fuel indicated by the source for potential turbine AGE equipment use to potential fuel use of all AGE equipment was multiplied times the actual AGE HAPs

emissions indicated by the source as an acceptable limit on AGE operations.

Emissions (As a 12 month rolling total)

| Pollutant | Tons per Year |
|-----------|------------------|
|-----------|------------------|

| | |
|----------------|-------|
| ~~~~~ | |
| Total HAP..... | 0.410 |

B. Compliance with Emission Limits and Standards:

1. Synthetic Minor Source Permit Conditions: Authority for these permit conditions for both new and existing **synthetic minor** sources is also provided in accordance with voluntary emission limit reductions taken pursuant to 17.12.220. **[THIS IS A FEDERALLY ENFORCEABLE REQUIREMENT AND MATERIAL PERMIT CONDITION]**

There are no synthetic minor limitations on these turbines, i.e.; there are no restrictions on the hours of operation or amount of fuel burned.

C. Permit Shield(s): Compliance with the permit conditions of this permit shall be deemed compliance with the following applicable requirements, therefore constituting a permit shield from those requirements pursuant to 17.12.310: **NONE**

D. Affected Emission Source Classification: Class II; Synthetic Minor; Stationary

E. Approved Alternate Operating Scenarios (17.12.180.A.11.): **NONE**

III. EMISSION LIMITS FOR ALTERNATE OPERATING SCENARIO PURSUANT TO 17.12.180.A.11:
NONE

IV. FUGITIVE EMISSION LIMITATIONS
THIS HEADING NOT USED IN THIS PART

V. ACID DEPOSITION CONTROL (17.12.180.A.6.):
Any emissions in excess of any allowances lawfully held by the permittee under Title IV of the Clean Air Act or Title 17 of the Pima County Code are prohibited.
NOT APPLICABLE

VI. SPECIAL CONDITIONS APPLICABLE TO EMISSIONS TRADING (17.12.180.A.12):
NONE

VII. COMPLIANCE PLAN (17.12.210):

A. Compliance Schedule for Operations Not in Compliance (17.12.210.A.7.b.iii.)
NOT APPLICABLE

B. Future Applicable Requirements Becoming Effective During the Permit Term - Subject to Specific Time Requirements; e.g. EPA promulgation of MACT or failure to promulgate MACT by mandated timelines (17.12.210.A.7.b.ii.) **NOT APPLICABLE**

VIII. EMISSION TESTING & MONITORING REQUIREMENTS (17.12.180.A.)
[FEDERALLY ENFORCEABLE REQUIREMENTS]

A. Monitoring and/or Analysis Test Methods and Procedures: Should the permittee desire to test, or be required to test the equipment to demonstrate compliance with II.A.3, the permittee shall contact the control officer for testing requirements.

B. Equipment Installation and/or Maintenance Requirements: Permittee is responsible for maintaining and operating the equipment, to the maximum practicable extent, consistent with good practice for minimizing emissions pursuant to 17.28.060.B.7.

C. Quality Assurance Plan (17.12.070):
NOT APPLICABLE

D. Recordkeeping Requirements:

1. The permittee shall maintain records as required in XV.B of Part A.
2. Permittee shall maintain an operation log for each engine showing the type of fuel burned in the equipment.
3. Permittee shall maintain a log showing:
 - a. the maximum sulfur content in percent by weight for each load of fuel purchased.
 - b. the dates that fuel was purchased or delivered;
 - c. the basis for the determination of the sulfur content;
4. The records shall be retained for at least five years.

E. Reporting Requirements

1. Special Reporting for the Affected Source or Process: Permittee shall promptly submit written reports to the Control Officer of any instances of deviation from permit requirements, and all required monitoring and recordkeeping requirements every six months. (refer to XIV.A and XVIII.B of Part A of this permit).

2. Emissions Inventory Reporting (17.12.320): Every source subject to a permit requirement shall complete and submit to the control officer an annual emissions inventory questionnaire pursuant to 17.12.320 contained in Appendix A of this part.

3. Permittee shall submit to the Control Officer a compliance certification which describes the

compliance status of the source with respect to each permit condition.[PCC 17.12.180.A.5. and PCC 17.12.210.A.2.]

4. Semiannual compliance certification reports shall be due on February 15th and August 15th of each year and shall cover the period July 1st through December 31st and January 1st through June 30th, respectively. The first semiannual report may not cover a six-month period.

5. In addition to the date of the reporting period, each compliance certification shall include the following:

- a. Identification of each term or condition of the permit that is the basis of the certification;
- b. Compliance status of each applicable requirement;
- c. Whether compliance was continuous or intermittent;
- d. Method(s) used for determining the compliance status of the source, currently and over the reporting period;
- e. All instances of deviations from permit requirements reported pursuant to Section XI.B of this Part;
- f. A progress report on all outstanding compliance schedules submitted pursuant to Section XI.C of this Part.

6. A copy of all compliance certifications for Class I permits shall also be submitted to the EPA Administrator.

IX. CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS

[PCC 17.12.210.A.3.]

Any document required to be submitted by this permit, including reports, shall contain a certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required by this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

APPENDIX A OF PART B
(Revised 10/10/96)

APPLICABLE DEFINITIONS AND REGULATIONS
FROM TITLE 17 OF THE PIMA COUNTY CODE

I. Applicable Definitions From Title 17: (17.04.340 Words, phrases, and terms):

"Act" or "Clean Air Act" means the Clean Air Act of 1963 (P.L. 88-206; 42 United States Code sections 7401 through 7671) as amended by the Clean Air Act Amendments of 1990 (P.L. 101-549).

"Actual emissions" means the actual rate of emissions of an air pollutant from an emissions unit, as determined in accordance with paragraphs a through c.

1. In general, actual emissions as of a particular date shall equal the average rate, in tons per year, at which the unit actually emitted the pollutant during a two-year period which precedes the particular date and which is representative of normal source operation. The control officer may allow the use of a different time period upon a demonstration that it is more representative of normal source operation. Actual emissions shall be calculated using the unit's actual operating hours, production rates, and types of materials processed, stored or combusted during the selected time period.

2. If there is inadequate information to determine actual historic emissions (e.g., the source has only been operating for 6 months), the control officer may presume that source-specific allowable emissions for the unit are equivalent to the actual emissions of the unit.

3. For any emissions unit which has not begun normal operations on the particular date, actual emissions shall equal the potential to emit of the unit on that date.

"ADEQ" means the Arizona Department of Environmental Quality.

"ADHS" means the Arizona Department of Health Services.

"Administrator" means the Administrator of the United States Environmental Protection Agency.

"Affected facility" means, with reference to a stationary source, any apparatus to which a standard is applicable.

"Air contaminant" means smoke, vapors, charred paper, dust, soot, grime, carbon, fumes, gases, sulfuric acid mist aerosols, aerosol droplets, odors, particulate matter, windborne matter, radioactive materials, or noxious chemicals, or any other material in the outdoor atmosphere.

"Air pollution" or "air pollutant" means the presence in the outdoor atmosphere of one or more air contaminants or combination thereof in sufficient quantities, which either alone or in connection with other substances, by reason of their concentration and duration are or tend to be injurious to human, plant, or animal life; or causes damage to property; or unreasonably interferes with the enjoyment of life or property of a substantial part of a community, or obscures visibility; or which in any way degrades the quality of the ambient air below the standards established by the Board of Supervisors.

"Allowable emissions" means the emission rate of a stationary source calculated using both the maximum rated capacity of the source, unless the source is subject to federally enforceable limits which restrict the operating rate or hours of operation, and the most stringent of the following:

1. The applicable new source performance standards or national emission standards for hazardous air pollutants, as contained in Chapter 17.16, Articles VI or VII and in 40 CFR 60 and 61;
2. The applicable existing source performance standard, as approved for the SIP and contained in Chapter 17.16, Article IV; or,
3. The emissions rate specified in any federally promulgated rule or federally enforceable permit conditions applicable to the state of Arizona.

Applicable requirement@ means any of the following:

1. Any federal applicable requirement.
2. Any other requirement established pursuant to this Title or A.R.S. Title 49, Chapter 3.

"A.R.S" means Arizona Revised Statutes, with standard references in this Title by Title and Section, so that A.R.S. 49-101 means Section 101 of Title 49 of the Arizona Revised Statutes.

"Arizona Testing Manual" (ATM) means the Arizona Testing Manual for Air Pollutant Emissions.

"Building", "structure", "facility" or "installation" means all of the pollutant-emitting activities which belong to the same industrial grouping, are located on one or more contiguous or adjacent properties, and are under the control of the same person or persons under common control except the activities of any vessel. Pollutant-emitting activities shall be considered as part of the same industrial grouping if they belong to the same major group which has the same two-digit code, as described in the Standard Industrial Classification Manual, 1972, as amended by the 1987 supplement.

"Btu" means British thermal unit, which is the quantity of heat required to raise the temperature of one pound of water one degree Fahrenheit.

"Cause" or "permit" (used as verbs) means to effect by action or participation, or by command, authority, or force; or allow, make possible, or consent to.

"CFR" means the Code of Federal Regulations, with standard references in this Title by Title and Part, so that "40 CFR 51" means "Title 40 of the Code of Federal Regulations, Part 51."

"Commence" means, as applied to construction of a source, or a major modification as defined in this section, that the owner or operator has all necessary preconstruction approvals or permits required and either has:

1. begun, or caused to begin, a continuous program of actual on-site construction of the source to be completed within a reasonable time; or

2. entered into binding agreements or contractual obligations, which cannot be canceled or modified without substantial loss to the owner or operator, to undertake a program of actual construction of the source to be completed within a reasonable time.

"Complete" means, in reference to an application for a permit or permit revision, that the application contains all the information necessary for processing the application. Designating an application complete for purposes of permit processing does not preclude the control officer from requesting or accepting any additional information.

"Control officer" means the Director of Pima County Department of Environmental Quality who shall serve as the executive head of the Pima County Air Quality Control District, or one of his authorized agents.

"County" means Pima County, Arizona.

"Director" means the director of the Arizona Department of Environmental Quality (ADEQ).

"Discharge" means the release or escape of an effluent from a source into the atmosphere.

"Emergency" means any situation arising from sudden and reasonably enforceable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

"Emission" means an air contaminant or gas stream, or the act of discharging an air contaminant or a gas stream, visible or invisible.

"Emissions allowable under the permit" means a permit term or condition determined at issuance to be required by an applicable requirement that establishes an emissions limit (including a work practice standard) or an emissions cap that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject.

"Emissions unit" means any part of a stationary source which emits or would have the potential to emit any regulated air pollutant.

"Emission standard" or "emission limitation" means a requirement established by the state, a local government, or the Administrator which limits the quantity, rate, or concentration of emissions of air pollutants on a continuous basis, including any requirements which limit the level of opacity, prescribe equipment, set fuel specifications, or prescribe operation or maintenance procedures for a source to assure continuous emission reduction.

"Enforceable" means all limitations and conditions which are enforceable by the Administrator.

"Environmental Protection Agency (EPA)" means the United States Environmental Protection Agency as established by 40 CFR 1.1, et seq.

"Excess emissions" or "emissions in excess of an emission limitation" means emissions of an air pollutant in excess of an emission standard as measured by the compliance test method applicable to such emission standard.

"Existing source" means either:

1. a source in operation prior to the effective date of this Title, or a source on which the construction or modification has commenced and for which the control officer has granted a permit prior to the effective date of this Title; or

2. for NSPS purposes, "Existing source" may also mean any source which does not have an applicable new source performance standard under Chapter 17.16, Article VI.

"Federal applicable requirement" means any of the following as they apply to emissions units covered by a Class I or Class II permit (including requirements that have been promulgated or approved by EPA through rule making at the time of issuance but have future-effective compliance dates):

1. Any standard or other requirement provided for in the applicable implementation plan approved or promulgated by EPA through rule making under Title I of the Act (Air Pollution Prevention and Control) that implements the relevant requirements of the Act, including any revisions to that plan promulgated in 40 CFR 52;

2. Any term or condition of any preconstruction permits issued pursuant to regulations approved or promulgated through rule making under Title I, including parts C or D, of the Act (Prevention of Significant Deterioration of Air Quality and Plan Requirements for Nonattainment Areas);

3. Any standard or other requirement under section 111 of the Act (Standards of Performance for New Stationary Sources), including section 111(d);

4. Any standard or other requirement under section 112 of the Act (Hazardous Air Pollutants), including any requirement concerning accident prevention under section 112(r)(7) of the Act;
5. Any standard or other requirement of the acid rain program under Title IV of the Act (Acid Deposition Control) or the regulations promulgated thereunder and incorporated pursuant to section 17.12.365;
6. Any requirements established pursuant to section 504(b) or section 114(a)(3) of the Act (Inspections, monitoring and entry);
7. Any standard or other requirement governing solid waste incineration, under section 129 of the Act (Solid Waste Combustion);
8. Any standard or other requirement for consumer and commercial products, under section 183(e) of the Act (Federal Ozone Measures);
9. Any standard or other requirement for tank vessels, under section 183(f) of the Act (Federal Ozone Measures);
10. Any standard or other requirement of the program to control air pollution from outer continental shelf sources, under section 328 of the Act (Air Pollution from Outer Continental Shelf Activities);
11. Any standard or other requirement of the regulations promulgated to protect stratospheric ozone under Title VI of the Act (Stratospheric Ozone Production), unless the Administrator has determined that such requirements need not be contained in a Title V permit; and
12. Any national ambient air quality standard or increment or visibility requirement under part C of Title I of the Act (Prevention of Significant Deterioration of Air Quality), but only as it would apply to temporary sources permitted pursuant to section 504(e) of the Act (Permit Requirements and Conditions).

"Federally enforceable" means:

1. The requirements of the New Source Performance Standards and National Emission Standards for Hazardous Air Pollutants contained in Articles VI and VII of Chapter 17.16.
2. The requirements of such other state or county rules or regulations approved by the Administrator, including the requirements of approved state and county operating and new source review permit programs that have been approved by the Administrator.
3. The requirements of any applicable implementation plan.
4. Emissions limitations, controls, and other requirements, and any associated monitoring, recordkeeping and reporting requirements, which are entered into voluntarily by a source pursuant to section 17.12.220.

"Federally listed hazardous air pollutant" means any air pollutant listed pursuant to section 112(b) of the Act (Hazardous Air Pollutants) and adopted pursuant to A.R.S. section 49-426.03, Subsection A and not

deleted pursuant to that subsection.

"Fugitive emissions" means those emissions which could not reasonably pass through a stack, chimney, vent or other functionally equivalent opening.

"Hazardous air pollutant" (HAP) means any federally listed hazardous air pollutant and any air pollutant that the director has designated as a hazardous air pollutant pursuant to A.R.S. 49-426.04, Subsection A and has not deleted pursuant to A.R.S. 49-426.04, Subsection C.

"Material permit condition" shall mean a condition which satisfies all of the following:

1. The condition is in a permit or permit revision issued by the control officer after the effective date of this section.

2. The condition is identified within the permit as a material permit condition.

3. The condition is one of the following:

a. An enforceable emission standard imposed to avoid classification as a major modification or major source or to avoid triggering any other applicable requirement.

a. A requirement to install, operate or maintain a maximum achievable control technology or hazardous air pollutant reasonably available control technology required pursuant to the requirements of A.R.S. ' 49-426.06.

c. A requirement for the installation or certification of a monitoring device.

d. A requirement for the installation of air pollution control equipment.

e. A requirement for the operation of air pollution control equipment.

f. Any opacity standard required by section 111 (Standards of Performance for New Stationary Sources) or Title I, part C or D (Air Pollution Prevention and Control) of the Act.

4. Violation of the condition is not covered by subsections A through F, or H through J of A.R.S. 49-464 or subsections A through F, or H through J of A.R.S. 49-514.

"New source" means any source that is not an existing source.

"Nitrogen oxides" means all oxides of nitrogen except nitrous oxide, as measured by test methods set forth in the Appendices to 40 CFR 60.

"Opacity" means the degree to which emissions reduce the transmission of light and obscure the view of an object in the background.

"Owner or operator" means any person who owns, leases, operates, controls, or supervises an affected facility or a stationary source of which an affected facility is a part.

"Particulate matter" means any airborne finely divided solid or liquid material with an aerodynamic diameter smaller than 100 micrometers.

"PDEQ" or "Department" means the Pima County Department of Environmental Quality.

"Permitting authority" means the department or a county department or agency that is charged with enforcing a permit program adopted pursuant to A.R.S. ' 49-480, subsection A.

"Person" includes any public or private corporation, company, partnership, firm, trust, association or society of persons, the federal government and any of its departments or agencies, the state and any of its agencies, departments or political subdivisions, as well as a natural person.

"Petroleum liquids" means petroleum, condensate, and any finished or intermediate products manufactured in a petroleum refinery but does not mean Number 2 through Number 6 fuel oils as specified in ASTM D-396-90a (Specification for Fuel Oils), gas turbine fuel oils Numbers 2-GT through 4-GT as specified in ASTM D-2880-90a (Specification for Gas Turbine Fuel Oils), or diesel fuel oils Numbers 2-D and 4-D as specified in ASTM D-975-90 (Specification for Diesel Fuel Oils).

"PM₁₀" means particulate matter with an aerodynamic diameter less than or equal to a nominal ten micrometers as measured by a reference method contained within 40 CFR 50 Appendix J or by an equivalent method designated in accordance with 40 CFR 53.

"Potential to emit" or "potential emission rate" means the maximum capacity of a stationary source to emit pollutant, excluding secondary emissions, under its physical and operational design. Any physical or operational limitation on the capacity of the source to emit a pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation or the effect it would have on emissions is federally enforceable.

"Regulated air pollutant" means any of the following:

1. Any conventional air pollutant as defined in A.R.S. ' 49-401.01.
2. Nitrogen oxides and volatile organic compounds.
3. Any air contaminant that is subject to a standard contained in Chapter 17.16, Article VI.
4. Any hazardous air pollutant as defined in A.R.S. ' 49-401.01.
5. Any class I or II substance listed in section 602 of the Act (Listing of Class I and Class II Substances).

"Responsible official" means one of the following:

1. For a corporation: a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is

responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:

- a. The facilities employ more than 250 persons or have gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars); or
 - b. The delegation of authority to such representatives is approved in advance by the permitting authority;
2. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;
 3. For a municipality, state, federal, or other public agency: Either a principal executive officer or ranking elected official. For the purposes of this Article, a principal executive officer of a federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of EPA); or
 4. For affected sources:
 - a. The designated representative in so far as actions, standards, requirements, or prohibitions under Title IV of the Act (Acid Deposition Control) or the regulations promulgated thereunder are concerned; and
 - b. The designated representative for any other purposes under 40 CFR part 70.

"Source" means any building, structure, facility or installation that may cause or contribute to air pollution or the use of which may eliminate, reduce or control the emission of air pollution.

"Stack" means any point in a source designed to emit solids, liquids, or gases into the air, including a pipe or duct but not including flares.

"Standard conditions" means a temperature of 293EK (68EF or 20EC) and a pressure of 101.3 kilopascals (29.92 inches Hg or 1013.25 mb).

"Start-up" means the setting into operation of any air pollution control equipment or process equipment for any purpose except routine phasing in of process equipment.

"State" means the state of Arizona unless the context indicates otherwise.

"State implementation plan" (SIP) means the plan adopted by the state of Arizona which provides for implementation, maintenance, and enforcement of such primary and secondary ambient air quality standards as are adopted by the Administrator, pursuant to the Act.

"Stationary source" means any building, structure, facility or installation subject to regulation which emits or may emit any air pollutant.

A "Twelve month rolling total" shall be calculated by summing the total emissions (or applicable units of measure) over the most recent twelve calendar months.

"Visible emissions" means any emissions which are visually detectable without the aid of instruments and which contain particulate matter.

"Volatile organic compounds (VOC)" means any compound of carbon, excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate, which participates in atmospheric photochemical reactions. This includes any such organic compound other than the following:

1. Methane;
2. Ethane;
3. Methylene chloride (dichloromethane);
4. 1,1,1-trichloroethane (methyl chloroform);
5. 1,1,1-trichloro-2,2,2-trifluoroethane (CFC-113);
6. Trichlorofluoromethane (CFC-11);
7. Dichlorodifluoromethane (CFC-12);
8. Chlorodifluoromethane (CFC-22);
9. Trifluoromethane (FC-23);
10. 1,2-dichloro 1,1,2,2-tetrafluoroethane (CFC-114);
11. Chloropentafluoroethane (CFC-115);
12. 1,1,1-trifluoro 2,2-dichloroethane (HCFC-123);
13. 1,1,1,2-tetrafluoroethane (HFC-134a);
14. 1,1-dichloro 1-fluoroethane (HCFC-141b);
15. 1-chloro 1,1-difluoroethane (HCFC-142b);
16. 2-chloro-1,1,1,2-tetrafluoroethane (HCFC-124);
17. Pentafluoroethane (HFC-125);
18. 1,1,2,2-tetrafluoroethane (HFC-134);
19. 1,1,1-trifluoroethane (HFC-143a);
20. 1,1-difluoroethane (HFC-152a); and
21. perfluorocarbon compounds which fall into these classes:
 - a. Cyclic, branched, or linear, completely fluorinated alkanes;
 - b. Cyclic, branched, or linear, completely fluorinated ethers with no unsaturations;
 - c. Cyclic, branched, or linear, completely fluorinated tertiary amines with no unsaturations; and
 - d. Sulfur containing perfluorocarbons with no unsaturations and with sulfur bonds only to carbon and fluorine.

II. Applicable Requirements and Regulations From Title 17:

17.12.220 Permits containing voluntarily accepted emission limitations and standards.

A. A source may voluntarily propose in its application, and accept in its permit, emissions limitations, controls or other requirements that are permanent, quantifiable, and otherwise enforceable as a practical matter in order to avoid classification as a source that requires a Class I permit or to avoid one or more other federal applicable requirements. For the purposes of this section, Enforceable as a practical matter@ means that specific means to assess compliance with a limit or trade provision are provided for in the permit in a manner that allows compliance with the limit or trade provision to be readily determined by an inspection of records and reports.

B. In order for a source to obtain a permit containing voluntarily accepted emissions limitations, controls or other requirements, the source shall demonstrate all of the following in its permit application:

1. The emissions limitations, controls or other requirements to be imposed for the purpose of avoiding an applicable requirement are at least as stringent as the emissions limitations, controls or other requirements that would otherwise be applicable to that source, including those that originate in an applicable implementation plan; and the permit does not waive, or make less stringent, any limitations or requirements contained in or issued pursuant to an applicable implementation plan, or that are otherwise federally enforceable.

2. All voluntarily accepted emissions limitations, controls or other requirements will be permanent, quantifiable and otherwise enforceable as a practical matter.

C. At the same time as notice of proposed issuance is first published pursuant to section 17.12.340, the Control Officer shall send a copy of any Class II permit proposed to be issued pursuant to this section to the Administrator for review during the comment period described in the notice pursuant to subsection 17.12.340 (D).

D. The Control Officer shall send a copy of each final permit issued pursuant to this section to the Administrator. (Ord. 1995-87 ' 15, 1995; Ord. 1994-83 ' 18, 1994; Ord./ 1993-128 ' 3 (part), 1993)

17.12.320 Annual emissions inventory questionnaire.

A. Every source subject to a permit requirement under this chapter shall complete and submit to the control officer an annual emissions inventory questionnaire. The questionnaire is due by March 31, or 90 days after the control officer makes the inventory form available, whichever occurs later, and shall include emission information for the previous calendar year. These requirements apply whether or not a permit has been issued and whether or not a permit application has been filed.

B. The questionnaire shall be on a form provided by or approved by the control officer and shall include the following information:

1. The source's name, description, mailing address, contact person and contact person phone number, and physical address and location, if different than the mailing address.

2. Process information for the source, including design capacity, operations schedule, and emissions control devices, their description and efficiencies.

3. The actual quantity of emissions from permitted emission points and fugitive emissions as provided in the permit, including documentation of the method of measurement, calculation or estimation determined pursuant to subsection C of this section of the following regulated air pollutants:

a. Any single regulated air pollutant in a quantity greater than one ton or the amount listed for the pollutant in the definition of "significant" in section 17.04.340, whichever is less.

b. Any combination of regulated air pollutants in a quantity greater than 2.5 tons.

C. Actual quantities of emissions shall be determined using the following emission facts or data:

1. Whenever available, emissions estimates shall either be calculated from continuous emissions monitors certified pursuant to 40 CFR Part 75, Subpart C and referenced as appendices, as published in the Federal Register on January 11, 1993 (and no later editions) which is incorporated herein by reference, and is on file with the Department and the Office of Secretary of State, or data quality assured pursuant to Appendix F of 40 CFR Part 60.

2. When sufficient data pursuant to subdivision 1 of this subsection is not available, emissions estimates shall be calculated from data from source performance tests conducted pursuant to 17.12.050 in the calendar year being reported or, when not available, conducted in the most recent calendar year representing the operating conditions of the year being reported.

3. When sufficient data pursuant to subdivisions 1 and 2 of this subsection is not available, emissions estimates shall be calculated using emissions factors from EPA Publication No. AP-42 "Compilation of Air Pollutant Emission Factors", Volume I: Stationary Point and Area Sources, Fourth Edition, supplements A through F, 1985, U.S. Environmental Protection Agency, Research Triangle Park, NC (GPO Order No. 055-000-00251-7), (and no future editions) which is incorporated herein by reference and is on file with the Department and the Office of Secretary of State. AP-42 can be obtained from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402, (202) 783-3238.

4. When sufficient data pursuant to subdivisions 1 through 3 of this subsection is not available, emissions estimates shall be calculated from material balance using engineering knowledge of process.

5. When sufficient data pursuant to subdivisions 1 through 4 of this subsection is not available, emissions estimates shall be calculated by equivalent methods approved by the control officer. The control officer shall only approve methods that are demonstrated as accurate and reliable as the applicable method in subdivisions 1 through 4 of this subsection.

D. Actual quantities of emissions calculated under subsection C of this section shall be determined on the basis of actual operating hours, production rates, in-place process control equipment, operational process control data, and types of materials processed, stored or combusted.

E. An amendment to an annual emission inventory questionnaire, containing the documentation required by subdivision (B)(3) of this section, shall be submitted to the control officer by any source whenever it discovers or receives notice, within two years of the original submittal, that incorrect or insufficient information was submitted to the control officer by a previous questionnaire. If the incorrect or insufficient information resulted in an incorrect annual emissions fee, the control officer shall require that additional payment be made or shall apply an amount as a credit to a future annual emissions fee. The submittal of an amendment under this subsection shall not subject the owner or operator to an enforcement action or a civil or criminal penalty if the original submittal of incorrect or insufficient information was due to reasonable cause and not willful neglect.

F. The control officer may require submittal of supplemental emissions inventory questionnaires for air contaminants pursuant to A.R.S. 49-476.01. (Ord. 1995-87 ' 18, 1995; Ord. 1994-83 ' 27, 1994; Ord. 1993-128 ' 3 (part), 1993)

17.16.230 Standards of performance for storage vessels for petroleum liquids.

A. No person shall place, store or hold in any reservoir, stationary tank or other container having a capacity of forty thousand (151,400 liters) or more gallons any petroleum liquid having a vapor pressure of 1.5 pounds per square inch absolute or greater under actual storage conditions, unless such tank, reservoir or other container is a pressure tank maintaining working pressure sufficient at all times to prevent hydrocarbon vapor or gas loss to the atmosphere or is equipped with one of the following vapor loss control devices, properly installed, in operation, and in good working order:

1. A floating roof consisting of a pontoon type double-deck type roof resting on the surface of the liquid contents and equipped with a closure seal to close the space between the roof eave and tank wall and a vapor balloon or vapor dome, designed in accordance with accepted standards of the petroleum industry. The control equipment shall not be used if the petroleum liquid has a vapor pressure of twelve pounds per square inch absolute or greater under actual conditions.

a. All tank gauging and sampling devices shall be gas tight except when gauging or sampling is taking place.

b. There shall be no visible holes, tears or other openings in the seal, or in any seal fabric. Where applicable, all openings except drains shall be equipped with a cover seal or lid. The cover seal or lid shall be in a closed position at all times, except when the device is in actual use.

c. Automatic bleeder vents shall be closed at all times, except when the roof is floated off or landed on the roof leg supports.

d. Rim vents, if provided, shall be set to open when the roof is being floated off the roof leg supports, or at the manufacturer's recommended setting.

2. Other equipment proven to be of equal efficiency for preventing discharge of hydrocarbon gases and vapors to the atmosphere.

B. Any other petroleum liquid storage tank shall be equipped with a submerged filling device, or acceptable equivalent, for the control of hydrocarbon emissions.

C. All facilities for dock loading of petroleum products, having a vapor pressure of 1.5 pounds per square inch absolute or greater at loading pressure, shall provide for submerged filling or acceptable equivalent for control of hydrocarbon emissions.

D. All pumps and compressors which handle volatile organic compounds shall be equipped with mechanical seals or other equipment of equal efficiency to prevent the release of organic contaminants into the atmosphere.

E. The monitoring of operations required by this Section is as follows:

1. The owner or operator of any petroleum liquid storage vessel to which this section applies shall for each such storage vessel maintain a file of each type of petroleum liquid stored, of the typical Reid vapor pressure of each type of petroleum liquid stored, and of dates of storage. Dates on which the storage vessel is empty shall be shown.

2. The owner or operator of any petroleum liquid storage vessel to which this section applies shall for such storage vessel determine and record the average monthly storage temperature and true vapor pressure of the petroleum liquid stored at such temperature if either:

a. The petroleum liquid has a true vapor pressure, as stored, greater than 26 mm Hg (0.5 psia) but less than 78 mm Hg (1.5 psia) and is stored in a storage vessel other than one equipped with a floating roof, a vapor recovery system or their equivalents; or

b. The petroleum liquid has a true vapor pressure, as stored, greater than 470 mm Hg (9.1 psia) and is stored in a storage vessel other than one equipped with a vapor recovery system or its equivalent.

3. The average monthly storage temperature shall be an arithmetic average calculated for each calendar month, or portion thereof, if storage is for less than a month, from bulk liquid storage temperatures determined at least once every seven days.

4. The true vapor pressure shall be determined by the procedures in American Petroleum Institute

Bulletin 2517, amended as of February, 1980 (and no future editions), which is incorporated herein by reference and on file with the Office of the Secretary of State. This procedure is dependent upon determination of the storage temperature and the Reid vapor pressure, which requires sampling of the petroleum liquids in the storage vessels. Unless the Control Officer requires in specific cases that the stored petroleum liquid be sampled, the true vapor pressure may be determined by using the average monthly storage temperature and the typical Reid vapor pressure. For those liquids for which certified specifications limiting the Reid vapor pressure exist, the Reid vapor pressure may be used. For other liquids, supporting analytical data must be made available upon request to the Control Officer when typical Reid vapor pressure is used. (Ord. 1996-50 ' 3, 1996; Ord. 1993-128 ' 4 (part), 1993; Ord. 1987-175 ' 19, 1987; Ord. 1986-227 ' 1 (part), 1986; Ord. 1979-93 (part), 1979).

17.16.400 Organic solvents and other organic materials.

A. No person shall transport or store VOCs without taking necessary and feasible measures to control evaporation, leakage or other discharge into the atmosphere.

17.16.520 Standards of performance for storage vessels for petroleum liquids.

In addition to 40 CFR 60.110-60.113:

1. Any petroleum liquid storage tank of less than 40,000 gallons (151,412 liters) capacity shall be equipped with a submerged filling device or acceptable equivalent as determined by the control officer for the control of hydrocarbon emissions.
2. All facilities for dock loading of petroleum products having a vapor pressure of 2.0 pounds per square inch absolute, or greater, at loading pressure shall provide for submerged filling or other acceptable equivalent for control of hydrocarbon emissions.
3. All pumps and compressors which handle volatile organic compounds shall be equipped with mechanical seals or other equipment of equal efficiency to prevent the release of organic contaminants into the atmosphere. (Ord. 1993-128 ' 4, 1993)