

APPENDIX A. PERMIT APPLICATION FORM AND FILING INSTRUCTIONS

As required by §49-480, and Chapter 3, Article 1, Pinal County Air Quality Control District Rules

FILING INSTRUCTIONS

No application shall be considered properly filed until the Control Officer has determined that all information required by this application form and the applicable statutes and regulations has been submitted. The Control Officer may waive certain application requirements for specific source types. For permit revisions, the applicant need only supply information which directly pertains to the revision. In addition to the information required on the application form, the applicant shall supply the following:

1. Description of the process to be carried out in each unit (include Source Classification Code).
2. Description of product(s).
3. Description of alternate operating scenario, if desired by applicant (include Source Classification Code).
4. Description of alternate operating scenario product(s), if applicable.
5. A flow diagram for all processes.
6. A material balance for all processes (optional, only if emission calculations are based on a material balance).
7. Emissions Related Information:
 - a. Submit all emissions of pollutants for which the source is major and the potential emissions of regulated air pollutants as defined in §1-3-140 for all emission sources. Emissions shall be expressed in pounds per hour, tons per year, and such other terms as may be requested. Emissions shall be submitted using the standard "Emission Sources" portion of the "Permit Application Form". Emissions information shall include fugitive emissions in the same manner as stack emissions, regardless of whether the source category in question is included in the list of sources contained in the definition of major source in §1-3-140.
 - b. Identify and describe all points of emissions and submit additional information related to the emissions of regulated air pollutants sufficient to verify which requirements are applicable to the source and sufficient to collect any permit fees owed under the fee schedule.
 - c. For insignificant activities or emissions levels which are exempted (as not needing to be included in permit applications) because of size or production rate, submit a list of such insignificant activities and information sufficient to show that the exemption applies.
 - d. Submit other information required by any applicable requirements.
 - e. For each alternate operating scenario, the applicant shall numerically define a worst-case emissions rate.
 - f. To the extent that an applicant requests an FEP emission limitation pursuant to §3-1-084, an identification of the affected emission unit(s), affected pollutant(s), and potential emissions before and after the requested limitation.
8. Citation and description of all applicable requirements as defined in §1-3-140.
9. An explanation of any proposed exemptions from otherwise applicable requirements.
10. The following information to the extent it is needed to determine or regulate emissions:

- a. Maximum annual process rate for each piece of equipment which generates air emissions.
 - b. Maximum annual process rate for the whole plant.
 - c. Maximum rated hourly process rate for each piece of equipment which generates air emissions.
 - d. Maximum rated hourly process rate for the whole plant.
 - e. For all fuel burning equipment including generators, a description of fuel use, including the type used, the quantity used per year, the maximum and average quantity used per hour, the percent used for process heat, and higher heating value of the fuel. For solid fuels and fuel oils, state the potential sulfur and ash content.
 - f. A description of all raw materials used and the maximum annual and hourly, monthly, or quarterly quantities of each material used.
 - g. Anticipated operating schedules:
 - i. Percent of annual production by season.
 - ii. Days of the week normally in operation.
 - iii. Shifts or hours of the day normally in operation.
 - iv. Number of days per year in operation.
 - h. Limitations on source operations and any work practice standards affecting emissions.
11. A description of all process and control equipment for which permits are required including:
- a. Name.
 - b. Make (if available).
 - c. Model (if available).
 - d. Serial number (if available).
 - e. Date of manufacture (if available).
 - f. Size/production capacity.
 - g. Type.
12. Stack Information:
- a. Identification.
 - b. Description.
 - c. Building Dimensions.
 - d. Exit Gas Temperature.
 - e. Exit Gas Velocity.
 - f. Height.
 - g. Inside Dimensions.
13. Site diagram which includes:
- a. Property boundaries.
 - b. Adjacent streets or roads.
 - c. Directional arrow.
 - d. Elevation.
 - e. Closest distance between equipment and property boundary.
 - f. Equipment layout.
 - g. Relative location of emission sources/points.
 - h. Location of emission points and non-point emission areas.
 - i. Location of air pollution control equipment.
14. Air Pollution Control Information:

- a. Description of or reference to any applicable test method for determining compliance with each applicable requirement.
 - b. Identification, description and location of air pollution control equipment, including spray nozzles and hoods, and compliance monitoring devices or activities.
 - c. The rated and operating efficiency of air pollution control equipment.
 - d. Data necessary to establish required efficiency for air pollution control equipment (*e. g.* , air to cloth ratio for baghouses, pressure drop for scrubbers, and warranty information).
 - e. Evidence that operation of the new or modified pollution control equipment will not violate any ambient air quality standards or PSD increments.
15. Equipment manufacturer's bulletins and shop drawings may be acceptable where appropriate.
16. Compliance:
- a. A description of the compliance status of the source with respect to all applicable requirements including but not limited to:
 - i. A demonstration that the source or alteration will comply with the applicable requirements contained in Chapter 4.
 - ii. A demonstration that the source or alteration will comply with the applicable requirements contained in Chapter 5.
 - iii. A demonstration that the source or alteration will comply with the applicable requirements contained in Chapter 6.
 - iv. A demonstration that the source or alteration will comply with all applicable requirements contained in Chapter 7.
 - b. A compliance schedule as follows:
 - i. For applicable requirements with which the source is in compliance, a statement that the source will continue to comply with such requirements.
 - ii. For applicable requirements that will become effective during the permit term, a statement that the source will meet such requirements on a timely basis. A statement that the source will meet in a timely manner applicable requirements that become effective during the term shall satisfy this provision, unless a more detailed schedule is expressly required by the applicable requirement.
 - iii. For sources that are not in compliance with all applicable requirements at the time of permit issuance:
 - (1) A narrative description of how the source will achieve compliance with requirements with which the source is not in compliance at the time of permit issuance.
 - (2) A schedule of compliance which shall include a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance with any applicable requirements for which the source will be in noncompliance at the time of permit issuance. This compliance schedule shall resemble and be at least as stringent as that contained in any judicial consent decree or administrative order to which the source is subject. Any such schedule of compliance shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based.

- c. A schedule for submission of certified progress reports no less frequently than every 6 months for sources required to have a schedule of compliance to remedy a violation.
 - d. The compliance plan content requirements specified in this subdivision shall apply and be included in the acid rain portion of a compliance plan for an affected source, except as specifically superseded by regulations promulgated under Title IV of the Clean Air Act (1990), and incorporated under §3-6-565, with regard to the schedule and method(s) the source will use to achieve compliance with the acid rain emissions limitations.
 - e. To the extent that an applicant has requested a voluntary FEP emission limitation under §3-1-084, a method or system for objectively demonstrating compliance with such limitation.
17. Compliance Certification:
- a. A certification of compliance with all applicable requirements by a responsible official consistent with §3-1-083.A. 5. and §(114)(a)(3) of the Clean Air Act (1990). The certification should include:
 - i. Identification of the applicable requirements which are the basis of the certification;
 - ii. A statement of methods used for determining compliance, including a description of monitoring, recordkeeping, and reporting requirements and test methods;
 - iii. A schedule for submission of compliance certifications during the permit term to be submitted no less frequently than annually, or more frequently if specified by the underlying applicable requirement or by PCAQCD;
 - iv. A statement indicating the source's compliance status with any applicable enhanced monitoring and compliance certification requirements; and
 - v. A certification of truth, accuracy, and completeness.
 - b. Acid Rain Program Compliance Plan:
Sources subject to the Federal acid rain regulations shall use nationally-standardized forms for acid rain portions of permit applications and compliance plans, as required by Chapter 3, Article 6 of this Code.
18. A new major source as defined in §3-3-203 or a major modification shall submit all information required in this application and information necessary to show compliance with Chapter 3, Article 3 of this Code, including, but not limited to:
- a. For sources located in a non-attainment area:
 - i. In the case of a new major source as defined in §3-3-203 or a major modification subject to an emission limitation which is the lowest achievable emission rate (LAER) for that source or facility, the application shall contain a determination of LAER that is consistent with the requirements of the definition of LAER contained in §3-1-030. The demonstration shall contain the data and information relied upon by the applicant in determining the emission limitation that is LAER for the source or facility for which a permit is sought.
 - ii. In the case of a new major source as defined in §3-3-203 or a major modification subject to the certification requirement of §3-3-220.A. 2. , the applicant shall submit such certification in a form that lists and describes all existing major sources owned or operated by the applicant and a statement of compliance with all conditions contained in the permits or conditional orders of each of the sources.

- iii. In the case of a new major source as defined in §3-3-203 or a major modification subject to the offset requirements described in §3-3-220.A. 3. , the applicant shall demonstrate the manner in which the new major source or major alteration meets the requirements of §3-3-230.
 - iv. An applicant for a new major source as defined in §3-3-203 or a major alteration for volatile organic compounds or carbon monoxide (or both) which will be located in a nonattainment area for photochemical oxidants or carbon monoxide (or both) shall submit the analysis described in §3-3-220. B.
- b. For sources located in an attainment area:
- i. A demonstration of the manner in which a new major source or major modification which will be located in an attainment area for a pollutant for which the source is classified as a major source as defined in §3-3-203 or the modification is classified as a major modification will meet the requirements of §3-3-250.
 - ii. In the case of a new major source as defined in §3-3-203 or major modification subject to an emission limitation which is the best available control technology (BACT) for that source or facility, the application shall contain a determination of BACT that is consistent with the requirements of the definition of BACT contained in §1-3-140. The demonstration shall contain the data and information relied upon by the applicant in determining the emission limitation that is BACT for the source or facility for which a permit is sought.
 - iii. In the case of a new major source as defined in §3-3-203 or major modification required to perform and submit an air impact analysis in the form prescribed in §3-3-260, such an analysis shall meet the requirements of §3-3-250. Unless otherwise exempted in writing by the Control Officer, the air impact analysis shall include all of the information and data specified in §3-3-260.
 - iv. If an applicant seeks an exemption from any or all of the requirements of §3-3-250, the applicant shall provide sufficient information and data in the application to demonstrate compliance with the requirements of the subsection(s) under which an exemption is sought.
19. To the extent that a source wishes to agree to permit-imposed federally enforceable operating limitations as a means to avoid classification as a major source, in accord with §3-1-084, a statement requesting such limitations, and to the extent practicable, a suggested statement of such limitations.
20. Calculations on which all information requested in this application is based.

PERMIT APPLICATION
(As required by A.R.S. §49-480, and Chapter 3, Article 1, Pinal County Air Quality Control
District Code of Regulations)
PINAL COUNTY AIR QUALITY CONTROL DISTRICT
P. O. BOX 987@ FLORENCE, AZ 85232@ PHONE: (520) 866-6929

1. Permit to be issued to: (Name and legal status (e.g. corporation or proprietorship) of organization that is to receive permit):

2. Mailing Address: _____

City: _____ State: _____ ZIP: _____

Billing Address (if different from above): _____

City: _____ State: _____ ZIP: _____

3. Plant Name (if different from #1 above):

4. Name(s) of Owner or Operator: _____ Phone: _____

5. Responsible Official: _____ Phone: _____

6. Plant/Site Manager or Contact Person: _____

Phone: _____ Fax: _____

7. Equipment/Plant Location or Proposed Location Address:

City: _____ ZIP: _____

Section/Township/Range, Latitude/Longitude, Elevation:

Assessor' s Parcel Number:

8. General Nature of Business: _____

Standard Industrial Classification Code: _____

9. Type of Organization:

Corporation State of incorporation: _____

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- Individual Owner Partnership Arizona Limited Liability Company
 Government Entity (Government Facility Code: _____)
 Other _____

10. Permit Application Basis: (Check all that apply.)

- New Source Revision Renewal of Existing Permit
 Portable Source General Permit Permit Transfer

For renewal or modification, include existing permit number:

Date of Commencement of Construction or Modification:

Is any of the equipment to be leased to another individual or entity? Yes No

11. If necessary to preserve this source's status as a less-than-major source, the undersigned agrees that the permit for this source SHOULD SHOULD NOT include Federally Enforceable Provisions in accordance with Code §3-1-084.
12. The undersigned applicant states that the applicant currently has, or at the time of construction and/or operation begins will have, legal authority to enter upon and use the premises upon which this source will be operated.
13. The undersigned states and certifies that, based on information and belief formed after reasonable inquiry, the statements and information in this document and supporting materials are true, accurate and complete. To the extent that this application pertains to an assignment of an existing permit, the undersigned further agrees to comply with and accept each and every obligation associated with that existing permit.

Knowingly presenting a false certification constitutes a criminal offense under ARS §13-2704.

Signature of Responsible Official of Organization: _____

Typed or Printed Name of Signer:

Official Title of Signer: _____

Date: _____

EMISSION SOURCES PAGE

Form available in the “Industrial Permits” section of Pinal County Air Quality webpage
(<http://pinalcountyz.gov/Departments/AirQuality/Pages/IndustrialPermits.aspx>)

APPENDIX B. FEES RELATED TO INDIVIDUAL PERMITS

- A. Source Categories. The owner or operator of a source required to have an air quality permit from the Director shall pay the fees described in this appendix.
- B. Fees for Permit Actions. The owner or operator of a Class I Title V Source, Class II Title V Source, or Class II Non-Title V source shall pay to the Control Officer \$66 per hour, adjusted annually under §3-7-585, for all permit processing time required for a billable permit action (does not include permit transfers). The owner or operator of a Class I Title V Source shall pay to the Control Officer the actual costs incurred by the Control Officer to meet the public participation requirements of §3-1-107; including costs incurred by the Control Officer to publish public notice of a public hearing and/or draft permit, to hire a hearing officer, to hire transcription or court reporting services, and to rent meeting room space. Upon completion of permit processing activities but before the issuance or denial of the permit or permit revision, the Control Officer shall send notice of the decision to the applicant along with a final bill. The maximum fee for a billable permit action for a qualifying general source seeking a Class II permit shall be \$500.00 The maximum fee for any other billable permit action for a non-title V source is \$25, 000. Except as provided in §3-1-080, the Control Officer shall not issue a permit or permit revision until the final bill is paid.
- C. Class I Title V Fees. The owner or operator of a Class I Title V Source that has undergone initial startup by January 1, shall annually pay to the Control Officer and administrative fee plus an emissions-based fee as follows:
1. The applicable administrative fee from the table below, as adjusted annually under §3-7-585. T he fee is due in accordance with §3-7-620.

| Class I Title V Source Category | Administrative Fee |
|---------------------------------|--------------------|
| Aerospace | \$ 12,900 |
| Cement Plants | \$ 39,500 |
| Combustion/Boilers | \$ 9,600 |
| Compressor Stations | \$ 7,900 |
| Electronics | \$ 12,700 |
| Expandable Foam | \$ 9,100 |
| Foundries | \$ 12,100 |
| Landfills | \$ 9,900 |
| Lime Plants | \$ 37,000 |
| Copper & Nickel Mines | \$ 9,300 |
| Gold Mines | \$ 9,300 |
| Mobile Home Manufacturing | \$ 9,200 |

| | |
|--|-----------|
| Paper Mills | \$ 12,700 |
| Paper Coaters | \$ 9,600 |
| Petroleum Products Terminal Facilities | \$ 14,100 |
| Polymeric Fabric Coaters | \$ 12,700 |
| Reinforced Plastics | \$ 9,600 |
| Semiconductor Fabrication | \$ 16,700 |
| Copper Smelters | \$ 39,500 |
| Utilities - Natural Gas | \$ 10,200 |
| Utilities - Fossil Fuel Except Natural Gas | \$ 20,200 |
| Vitamin/Pharmaceutical Manufacturing | \$ 9,800 |
| Wood Furniture | \$ 9,600 |
| Others | \$ 9,900 |
| Others with Continuous Emission Monitoring | \$ 12,700 |

2. An emissions-based fee of \$11.75 per ton of actual emissions of all regulated pollutants emitted during the previous calendar year ending 12 months earlier. The fee is adjusted annually under §3-7-585, and due in accordance with §3-7-620.

D. Class II Title V Fees. The owner or operator of a Class II Title V Source that has undergone initial startup by January 1, shall pay the applicable administrative fee from the table below, adjusted under §3-7-585 and §3-7-578, and due in accordance with §3-7-620.

| Class II Title V Source Category | Administrative Fee |
|---|---|
| Synthetic Minor Sources (except Portable Sources) at greater than 50% of Threshold Permit Allowable Emissions | Administrative Fee from Class I Title V Table for Category - C(1) |
| Stationary Sources not otherwise classified | \$ 5,000 |
| Qualifying General Source as defined in §3-1-030(16a) | \$ 3,000 |
| Small Source as defined in §3-1-030(20) (For example, perchloroethylene dry cleaners) | \$ 500 |

E. Class II Non-Title V Fees. The owner or operator of a Class II Non-Title V Source or authority to operate under a general permit that has undergone initial startup by January 1, shall pay the applicable administrative fee from the table below, adjusted under §3-7-585 and §3-7-578, and due in accordance with §3-7-620.

| Class II Non-Title V Source Category | Administrative Fee |
|---|--------------------|
| Stationary Sources not otherwise classified | \$ 3,250 |
| Cotton Gins with a permitted capacity of less than 20,000 bales per year | \$ 1,625 |
| Portable Sources | \$ 3,250 |
| Qualifying General Source as defined in §3-1-030(16a) | \$ 2,000 |
| Crematories that qualify for an ADEQ General Permit | \$ 1,000 |
| Gasoline Dispensing Operations that qualify for a ADEQ General Permit as defined in A.A.C. R18-2-501 through 511 (with at least 18 nozzles) | \$ 500 |
| Spray Operations (Medium) (See §3-1-030 for definition) | \$ 1,600 |
| Spray Operations (Small) (See §3-1-030 for definition) | \$ 400 |

F. Class III Sources. The owner or operator of a "Minor Screening Source" shall pay the applicable administrative fee from the table below:

| Class III Non-Title V or Minor Screening Source Category | Administrative Fee |
|---|--------------------|
| Minor Screening Source (See §3-1-030.B.3 and .4 for Class III applicability definitions; for example, typically including sources with PTE below significance levels such as auto body shops, solvent dry cleaners, and gasoline dispensing operations with less than 18 nozzles) | \$ 250 |

G. Fees Related to General Permits. The owner or operator of a source that applies for authority to operate under a general permit per A.A.C. R18-2-501 through 511, shall pay to the Control Officer \$500 with the submittal of the application. This fee also applies to the owner or operator of any source who intends to continue operating under the authority of a general permit that has been proposed for renewal.

PU ____ COMP ____ ADA ____

PERMIT CHECKLIST AND FEE ITEMIZATION

PERMITTEE _____ PERMIT TYPE _____ PERMIT NO. _____

DATE _____ ITEM _____ UNIT _____ GRADE _____ RATE _____ COST

| | | | | | |
|-------|---------------------------------|-----------|-------|----------|----------|
| _____ | Receive Application | _____ hrs | | \$ _____ | \$ _____ |
| _____ | Cursory Review | _____ hrs | | _____ | _____ |
| _____ | Request Additional Information | _____ hrs | | _____ | _____ |
| _____ | Review Additional Information | _____ hrs | | _____ | _____ |
| _____ | Perform Field Inspection | _____ hrs | _____ | _____ | _____ |
| _____ | Air _____ Mileage | _____ mi | | _____ | _____ |
| _____ | Per Diem | \$ _____ | | _____ | _____ |
| _____ | Review Inspection Report | _____ hrs | | _____ | _____ |
| _____ | Observe Emissions Test | _____ hrs | | _____ | _____ |
| | Air _____ Mileage | _____ mi | | _____ | _____ |
| | Per Diem | \$ _____ | | _____ | _____ |
| _____ | Review Instrument Check Report | _____ hrs | | _____ | _____ |
| _____ | Laboratory Analysis | _____ hrs | _____ | _____ | _____ |
| _____ | Process Aerometric Data | _____ hrs | _____ | _____ | _____ |
| _____ | Final Review | _____ hrs | | _____ | _____ |
| _____ | Prepare Evaluation Form | _____ hrs | | _____ | _____ |
| _____ | Prepare Permit conditions | _____ hrs | | _____ | _____ |
| _____ | Prepare Fee & Transmittal Ltrs. | _____ hrs | | _____ | _____ |
| _____ | Circulate Permit – Director | _____ hrs | _____ | _____ | _____ |
| | - Engineer | _____ hrs | | _____ | _____ |
| | - secretary | _____ hrs | | _____ | _____ |
| _____ | Consultations and Meetings | _____ hrs | _____ | _____ | _____ |
| _____ | Legal Services | _____ hrs | | _____ | _____ |
| _____ | Clerical Work | _____ hrs | | _____ | _____ |
| | | _____ hrs | | _____ | _____ |
| _____ | Compute Fee | _____ hrs | | _____ | _____ |
| _____ | Reproduction | _____ pps | | _____ | _____ |
| _____ | Mail Permits | _____ hrs | | _____ | _____ |
| _____ | Miscellaneous | _____ hrs | | _____ | _____ |

Total \$ _____

[Adopted effective November 3, 1993.]

APPENDIX C. CONTROLLED OPEN BURNING AND EARTHMOVING FEE SCHEDULE

| Category | Fee |
|--|-----------------|
| RESIDENTIAL | |
| A. One time, 3 day permit | \$2.00 |
| B. 1 month small scale permit (10 cubic yards or less) | \$5.00 |
| C. 1 month large scale permit (more than 10 but less than 20 cubic yards) | \$10.00 |
| COMMERCIAL | |
| A. One time, 3 day permit | \$5.00 |
| B. 1 month small scale permit (10 cubic yards or less) | \$20.00 |
| C. 1 month large scale permit (more than 10 but less than 20 cubic yards) | \$35.00 |
| D. Land-Clearing Operations - Non-Refundable Application Fee | \$250.00 |
| E. Land-Clearing Operations - Additional Permit-Issue Fee (if permit is approved) | \$1.00 per acre |
| BONFIRES FOR COMMUNITY OR CIVIC EVENTS | |
| One Time, 3 Day Permit and less than 20 cubic yards | NO FEE |
| AGRICULTURAL (1 year permit) | |
| A. Farms less than 320 contiguous acres | \$50.00 |
| B. Farms of 320 or more contiguous acres | \$100.00 |
| C. Maximum annual single-permit fee for all acreage under control of one legal entity, regardless of contiguity or acreage | \$200.00 |
| BUILDING DEMOLITION/BUILDING MATERIAL DEMOLITION BY FIRE | |
| A. Non-refundable pre-permit inspection fee | \$50.00 |
| B. Additional permit-issue fee (if permit is approved) | \$200.00 |
| DESTRUCTION OF HAZARDOUS MATERIAL | |
| A. Non-refundable pre-permit inspection fee | \$50.00 |
| B. Additional permit-issue fee (if permit is approved) | \$200.00 |

[Adopted effective November 3, 1993. Amended February 22, 1995. Amended February 11, 2004.]

EARTHMOVING

No refunds will be issued for earthmoving permits. Credit may be issued on a case by case basis (within 60 days of permit being issued)

| Category | Fee |
|---|------------|
| A. Land stripping and/or earthmoving (0. 1 to less than five acres) | \$75.00* |
| Land stripping and/or earthmoving (five to less than 10 acres) | \$200.00* |
| Land stripping and/or earthmoving (10 acres to less than 20 acres) | \$400.00* |
| Land stripping and/or earthmoving (20 acres to less than 30 acres) | \$600.00* |
| Land stripping and/or earthmoving (30 acres to less than 40 acres) | \$800.00* |
| Land stripping and/or earthmoving (40 acres to less than 50 acres) | \$1000.00* |
| Land stripping and/or earthmoving (50 acres to less than 60 acres) | \$1200.00* |
| Land stripping and/or earthmoving (60 acres to less than 70 acres) | \$1400.00* |
| Land stripping and/or earthmoving (70 acres to less than 80 acres) | \$1600.00* |

Land stripping and/or earthmoving (80 acres to less than 100 acres) \$1800.00*
Land stripping and/or earthmoving (100+ acres) \$2000.00*

**If a registrant qualifies under the land stripping and/or earthmoving category, no other category applies.

B. Trenching

363 linear feet to 500 linear feet of aggregate trenching \$50.00*
501 linear feet to 1000 linear feet of aggregate trenching \$100.00*
1,001 to 2,640 linear feet (0.5 mile) \$150.00*
2,641 linear feet to 5,280 linear feet (1.0 mile) \$500.00*
5,281 linear feet to 10,560 linear feet (2.0 miles) \$1,000.00*
10,561 linear feet to 21,120 linear feet (4.0 miles) \$1,500.00*
21,121+ linear feet (greater than 4 miles) \$2,000.00*

C. Stockpiling greater than 10 cubic yards but less than 100 cubic yards \$50.00*

100 cubic yards to 500 cubic yards \$100.00*
501+ cubic yards \$150.00*

D. Annual Block Registration (Utilities & Routine Operations) \$2000.00*

* Late filing fee: Failure to Obtain a Dust Registration prior to construction activity at the site:

- a. For projects less than 5 acres \$25.00;
- b. For projects of 5 acres or larger \$100.00.

[Adopted November 3, 1993. Amended December 4, 2002, and effective March 25, 2003. Amended February 11, 2004, Amended October 13, 2010]

APPENDIX D. MEANINGS OF MATHEMATICAL SYMBOLS

Mathematical symbols appearing in this Code shall have the following meanings:

| Symbol | Meaning |
|--------|--|
| < | less than |
| ≤ | less than or equal to |
| > | greater than |
| ≥ | greater than or equal to |
| n^3 | the number represented by n to the third power |
| % | percent |
| § | section |
| ± | plus or minus |
| ° | degree |
| Δ | difference |

[Adopted effective November 3, 1993.]

APPENDIX E. CHEMICAL SYMBOLS AND ABBREVIATIONS

Chemical symbols and abbreviations appearing in this Code shall have the following meanings:

| Symbol or Abbreviation | Meaning |
|------------------------|------------------------------------|
| CO | carbon monoxide |
| CO ₂ | carbon dioxide |
| Hg | mercury |
| H ₂ S | hydrogen sulfide |
| NO ₂ | nitrogen dioxide |
| NO _x | oxides of nitrogen |
| O ₂ | oxygen |
| O ₃ | ozone |
| Pb | lead |
| S | sulfur |
| SO ₂ | sulfur dioxide |
| TSP | total suspended particulate matter |

PM₁₀ particulate matter 10 µm or less in diameter

PM_{2.5} particulate matter 2.5 µm or less in diameter

PTFE polytetrafluoroethylene

[Adopted effective November 3, 1993, Amended October 13, 2010]

APPENDIX F. SCIENTIFIC UNITS

Scientific units appearing in the Code shall have the following meanings:

| Unit | Meaning |
|-------------------|---|
| Btu | British thermal unit (heating value) |
| C | Celsius |
| cfm | cubic feet per minute |
| cm | centimeter |
| dscf | a dry cubic foot of gas at standard conditions of 20°C (68°F) and 760 mm of Hg (29.92 in. of Hg), excluding any water vapor therein |
| dscm | a dry cubic meter of gas at standard conditions of 20°C (68°F) and 60 mm of Hg (29.92 in. of Hg), excluding any water vapor |
| F | Fahrenheit |
| ft | foot |
| g | gram; a unit of mass (453.6 g = one lb.) |
| gal | gallon |
| gr | grain; a unit of mass equal to 0.002286 ounce (7000 gr = one lb) |
| hr | hour |
| in | inch |
| kg | kilogram |
| km | kilometer |
| l | liter |
| lb | pound |
| m | meter |
| min | minute |
| ml | milliliter |
| mo | month |
| mph | miles per hour |
| MW | megawatt |
| Mw-hr | rating of power generating equipment; mega (million) watts times hours |
| P | pressure |
| ppb | parts of pollutant per billion parts of effluent, by volume (gases only) |
| ppm | parts of pollutant per million parts of effluent, by volume (gases only) |
| psia | pounds per square inch absolute |
| psig | pounds per square inch gage |
| sec | second |
| µg/m ³ | micrograms pollutant per cubic meter of effluent or air |

[Adopted effective November 3, 1993.]

APPENDIX G. ACRONYMS

The following acronyms used herein are those defined by the U. S. Environmental Protection Agency:

| Acronym | Meaning |
|---------|---|
| AAC | Arizona Administrative Code |
| ACM | Asbestos-Containing Material |
| ADEQ | Arizona Department of Environmental Quality |
| ADHS | Arizona Department of Health Services |
| ARS | Arizona Revised Statutes |
| ASTM | American Society of Testing Materials |
| AQCD | Air Quality Control District |
| BACT | Best Available Control Technology |
| CAA | Clean Air Act |
| CFR | Code of Federal Regulations |
| CTM | Control Technology Manual |
| E | East |
| EMTIC | Emissions Measurement Technical Information Center |
| EPA | Environmental Protection Agency |
| FR | Federal Register |
| GEP | Good Engineering Practice |
| JP | Jet Petrol |
| LEL | Lower Explosive Limit |
| MSDS | Material Safety Data Sheet |
| NAAQS | National Ambient Air Quality Standards |
| NESHAP | National Emissions Standards for Hazardous Air Pollutants |
| N | North |
| NSR | New Source Review |
| NSPS | New Source Performance Standards |
| PCAQCD | Pinal County Air Quality Control District |
| PSD | Prevention of Significant Deterioration |
| R | Range |
| RACT | Reasonably Available Control Technology |
| RACM | Regulated Asbestos-Containing Material |
| SIP | State Implementation Plan |
| SOCMI | Synthetic Organic Chemical Manufacturing Industry |
| S | South |
| T | Township |
| USEPA | United States Environmental Protection Agency |
| VOC | Volatile Organic Compound |
| W | West |

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This constitutes that subset of the rules adopted by the Pinal County Board of Supervisors on 3/31/75, which subset contains only those rules approved by the Administrator as part of the Arizona State Implementation Plan ("SIP") at 43 FR 50531 (11/15/78).

Where required for purposes of maintaining an adequate SIP, the Board of Supervisors has conditionally adopted successor rules for each of these provisions. Accordingly, each of these provisions has been conditionally repealed, conditioned upon prior EPA approval of a corresponding SIP revision. See Appendix K for a log of relevant EPA action.

REG. 7-1-1.1 POLICY AND LEGAL AUTHORITY

Deleted from SIP - see 66 FR 21676 (5/1/01).

REG. 7-1-1.2 DEFINITIONS

In these regulations, unless the content otherwise requires:

1. "Advisory council" means the Pinal-Gila Counties Air Pollution Control District advisory council.
2. "Air Contaminants" includes smoke, vapors, charred paper, dust, soot, grime, carbon fumes, gases, mist, odors, particulate matter, wind borne matter, radioactive material, or noxious chemicals, or any other material in the outdoor atmosphere.
3. "Air pollution" means the presence in the outdoor atmosphere of one or more air contaminants or combinations thereof in such quantities and of such duration as are or may tend to be injurious to human, plant or animal life, or property.
4. "Department" means the enforcement office of the Air Quality Control District.
5. "Director" means the director of the Air Quality Control District.
6. "Division" means the individual county air pollution divisions making up the Air Quality Control District. These are the Pinal County Air Pollution Division and the Gila County Air Pollution Division.
7. "Discharge" means the release, escape or emission of an air contaminant into the atmosphere so as to cause or contribute to air pollution.
8. "Hearing board" means the Air Quality Control District Hearing Board, which may be either the Pinal or the Gila County hearing board.
9. "Opacity" means a condition of the atmosphere, or any part thereof, in which it is partially or wholly impervious to rays of light. Opacity as used in these regulations refers to a condition of the atmosphere which results in the obscuration of an observer's view.
10. "Open burning" means the combustion of Material of any type where the products of combustion are emitted into the atmosphere and are not directed through a stack or chimney
11. "Particulate matter" means any discrete particles of material other than uncombined water, which are carried in, suspended in or discharged into the atmosphere as a liquid or solid.
12. "Person" means any public or Private corporation, company, partnership, firm, 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.

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13. "Process weight" means the total amount of all Material introduced into an industrial operation or process, exclusive of liquid and gaseous fuels and air used to support combustion.
14. "Process weight per hour" means the total process weight for the entire period of operation or for a typical portion thereof, divided by the number of hours of each period or portion thereof.
15. "Region" means those areas so designated by the administrator of the United States Environmental Protection Agency pursuant to section 107 of the Federal Clean Air Act as amended, and includes the Phoenix Tucson Intrastate Air Quality Control Region encompassing the Counties of Gila, Maricopa, Pima, Pinal and Santa Cruz.
16. "Ringelmann smoke chart" means the Ringelmann scale for grading the opacity, appearance, density or shade of an emission as published by the U. S. Bureau of Mines, or any chart, recorder, indicator or device for the measurement of emission shade, density or opacity which is approved by the director as the equivalent of the Ringelmann scale.
17. "Smoke" means small gas borne particles, other than water, discharged into the atmosphere in sufficient quantities to be visible.
18. "Source" means and refers to any physical facility, arrangement, device, contrivance, condition or structure which may emit air contaminants.
19. "Standard conditions" means a gas temperature of 60 degrees Fahrenheit and a gas pressure of 14.7 pounds per square inch absolute. All analyses and tests shall be calculated and reported at standard gas temperature and pressure value
20. "Control officer" means the control officer of the Air Quality Control District.

Replacement section(s): §1-3-140.

REG. 7-1-1.3 AIR POLLUTION PROHIBITED

Deleted from SIP - see 66 FR 21676 (5/1/01).

REG. 7-1-2.2 PERMIT UNIT DESCRIPTION AND FEES

Deleted from SIP - see 65 FR 79742 (12/20/00).

REG. 7-1-2.4 APPEALS TO HEARING BOARD

Deleted from SIP - see 65 FR 79742 (12/20/00).

REG. 7-1-2.5 TRANSFER: EXPIRATION: POSTING

Deleted from SIP - see 66 FR 21676 (5/1/01).

REG. 7-1-2.6 RECORD KEEPING AND REPORTING

Deleted from SIP - see 66 FR 21676 (5/1/01).

REG. 7-1-2.7 ENFORCEMENT

Deleted from SIP - see 65 FR 79742 (12/20/00).

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REG. 7-1-4.1 VIOLATIONS: ORDER OF ABATEMENT: TIME FOR COMPLIANCE
Deleted from SIP - see 62 FR 34641 (6/27/97).

REG. 7-1-4.2 HEARINGS ON ORDERS OF ABATEMENT
Deleted from SIP - see 62 FR 34641 (6/27/97).

**REG. 7-1-5.1 CLASSIFICATION AND REPORTING: PRODUCTION OF RECORDS:
CONFIDENTIALITY OF RECORDS:
VIOLATION: PENALTY**
Deleted from SIP - see 62 FR 34641 (6/27/97).

REG. 7-1-5.2 SPECIAL INSPECTION WARRANT
Deleted from SIP - see 62 FR 34641 (6/27/97).

**REG 7-1-5.3 DECISIONS OF HEARING BOARDS: SUBPOENAS:
EFFECTIVE DATE:**
Deleted from SIP - see 62 FR 34641 (6/27/97).

REG. 7-1-5.4 JUDICIAL REVIEW: GROUNDS: PROCEDURES
Deleted from SIP - see 62 FR 34641 (6/27/97).

REG. 7-1-5.5 NOTICE OF HEARING: PUBLICATION: SERVICE:
Deleted from SIP - see 62 FR 34641 (6/27/97).

REG. 7-1-5.6 INJUNCTIVE RELIEF
Deleted from SIP - see 62 FR 34641 (6/27/97).

REG. 7-2-1.1 NON-SPECIFIC PARTICULATE AMBIENT AIR QUALITY STANDARDS
Deleted from SIP - see 66 FR 21676 (5/1/01).

REG. 7-2-1.2 SULFUR DIOXIDE AMBIENT AIR QUALITY STANDARDS
Deleted from SIP - see 66 FR 21676 (5/1/01).

**REG. 7-2-1.3 NON-METHANE HYDROCARBONS AMBIENT AIR QUALITY
STANDARDS**
Deleted from SIP - see 65 FR 79742 (12/20/00).

REG; 7-2-1.4 PHOTOCHEMICAL OXIDANTS AMBIENT AIR QUALITY STANDARDS
Deleted from SIP - see 66 FR 21676 (5/1/01).

REG. 7-2-1.5 CARBON MONOXIDE AMBIENT AIR QUALITY STANDARDS
Deleted from SIP - see 66 FR 21676 (5/1/01).

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REG. 7-2-1.6 NITROGEN DIOXIDE AMBIENT AIR QUALITY STANDARDS

Deleted from SIP - see 66 FR 21676 (5/1/01).

REG. 7-2-1.7 EVALUATION AMBIENT AIR QUALITY STANDARDS

Deleted from SIP - see 66 FR 21676 (5/1/01).

REG. 7-2-1.8 ANTI-DEGRADATION

These standards shall not be construed as permitting the preventable degradation of air quality in any area of Pinal and Gila Counties.

Replacement section(s): §1-1-010, Chapter 3, Article 3.

REG. 7-3-1.1 VISIBLE EMISSIONS: GENERAL

Except as otherwise Provided In these regulations relating to specific types of sources, the opacity of any plume or effluent shall not be as great as nor greater than that designated as No. 2 on the Ringelmann chart or percent Opacity equivalent to No. 2 Ringelmann, except when the provisions of Reg. 7-1-2.8 apply.

Replacement section(s): Chapter 4.

REG. 7-3-1.2 FUGITIVE DUST

- A. No person shall cause, suffer, allow or permit a building or its appurtenances or open area to be used, constructed, repaired, altered or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Dust and other types of particulates shall be kept to a minimum by such measures as wetting down, covering, landscaping, paving, treating or by other reasonable means.
- B. No person shall cause, suffer, allow or permit the repair, construction or reconstruction of a roadway or alley without taking reasonable precautions to prevent particulate matter from becoming airborne dust and other particulates shall be kept to a minimum by employing temporary paving, dust palliatives, wetting down, detouring or by other reasonable means. Earth or other material shall be removed from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water or by other means.
- C. No person shall cause, suffer, allow or permit transportation or material likely to give rise to airborne dust without taking reasonable precautions to prevent particulate matter from becoming airborne.
- D. No person shall cause, suffer, allow or permit crushing, screening, handling or conveying of materials or other operations likely to give rise to airborne dust without taking reasonable precautions to prevent particulate matter from becoming airborne such as spray bars and wetting agents.
- E. No person shall cause, suffer, allow or permit the performance of agricultural practices including but not limited to tilling of land and application of fertilizers without taking reasonable precautions to prevent particulate matter from becoming airborne.

Replacement section(s): Chapter 4, Article 2, §5-5-190.

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REG. 7-3-1.3 OPEN BURNING

It shall be unlawful for any person to ignite, cause to be ignited, direct to be ignited, or allow any open outdoor fire within the Pinal and Gila Counties except as provided in this regulation.

- A. Fires used only for the domestic cooking of food, for providing warmth for human beings, for recreational purposes and for the branding of animals may be conducted without permit provided they do not create a public nuisance.
- B. All other excepted open burning must be under written permit issued by the director who will determine the conditions and time most advantageous for minimizing air pollution and Protecting the health, safety and comfort of persons from the effects of the burning. The director may designate a public official as his representative to issue such a permit on forms provided by the director. Fires permitted subject to these stipulations are:
 - 1. Fires declared as necessary in writing to the director by:
 - a. The State Entomologists as essential for the purpose of disease and/or pest prevention.
 - b. Any public official in the performance of official duty for the control of weeds, the prevention of a fire hazard, the disposal of dangerous material where no alternative exists, or the instruction in the fighting of fires.
 - c. The federal government or any of its department, agencies or agents, the state or any of its agencies, departments or subdivisions, for the purpose of watershed rehabilitation or control through vegetative manipulation.
 - 2. Fires permitted by the director for the burning of agricultural ditch banks, fence rows, and canal laterals With high temperature mechanical burners, and tumbleweeds where reasonable removal is not indicated.
- C. The issuance by the director of a permit to burn does not release the permit tee from any of the requirements of a fire department having jurisdiction, and a permit so issued must be validated by such fire department to be effective.

VIOLATIONS

Violations of this section are punishable by administrative process or as a misdemeanor as provided by ARS 36-789.01.

Replacement section(s): Chapter 3, Article 8.

REG. 7-3-1.4 INCINERATION

- A. Notwithstanding the provisions of Reg. 7-3-1.1, no person shall cause, suffer, or allow to be emitted into the atmosphere, from any incinerator, smoke for more than 30 seconds in any 60 minutes period the appearance, density, opacity or shade of which is as dark as No. 1 of the Ringelmann Scale.
- B. No person shall cause, suffer, allow or permit to be emitted into the atmosphere from any incinerator or to pass a convenient measuring point near the incinerator stack outlet particulate matter to exceed 0.17 pounds per 1,000 pounds of gases, corrected to 50 percent excess air and calculated as if no auxiliary fuel had been used.
- C. The amount of particulate matter emitted shall be determined by generally recognized standards or methods of measurement. The ASME Test Code for "Dust Separating

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Apparatus", PTC 21, the ASME Test Code for "Determining Dust Concentrations in Gas Streams", PTC 27 and the latest issue of the Los Angeles County Source Testing Manual shall be used as general rules but these may be modified, adjusted, or added to by the director to suit specific sampling conditions or needs based upon good practice, judgement and experience.

Replacement section(s): §5-3-100.

REG. 7-3-1.5 WOOD WASTE BURNERS

For a device used by the lumber industry exclusively for the burning of wood wastes, the provisions of Reg. 7-3-1.4 shall apply except during the building of a new fire not more than once each day for a period not to exceed 60 consecutive minutes. Upset time of three minutes in any one hour will not be considered a violation of these regulations.

Replacement section(s): §5-3-100.

REG. 7-3-1.6 REDUCTION OF ANIMAL OR VEGETABLE MATTER

No person shall operate or use any machine, equipment or other contrivances for the treatment or processing of animal or vegetable matter, separate or in combination, unless all gases, vapors and gas-entrained effluents from such operation, equipment or contrivance have been:

1. Incinerated at temperatures of not less than 1,200 degrees Fahrenheit for a period of not less than 0.3 seconds, or
2. Processed in a manner determined to be equally or more effective for the control of air pollution.
3. All persons owning or responsible for any process involving the reduction of animal and or vegetable matter shall provide properly constructed facilities and install and maintain in good working order such devices as are necessary to prevent emissions of air contaminants.

Replacement section(s): §5-24-1030.E.

REG. 7-3-1.7 FUEL-BURNING EQUIPMENT - *Particulate Emissions*

- A. This regulation applies to installations in which fuel is burned for the primary purpose of producing steam, hot water, hot air or other liquids, gases or solids and in the course of doing so the products of combustion do not come into direct contact with process materials. When any products or by-products of a manufacturing process are burned for the same purpose or in conjunction with any fuel, the same maximum emission limitations shall apply.
- B. The heat content of coal shall generally be determined according to ASTM Method D-271, "Laboratory Sampling and Analysis of Coal or Coke" or ASTM Method D-2015, "Gross Calorific Value of solid Fuel by the Adiabatic Bomb Calorimeter". These methods shall be used as guides by may be modified, adjusted or added to by the director to suit, specific sampling conditions or needs based upon good practice, judgement and experience.
- C. For purposes of this regulation, the heat input shall be the aggregate heat content of all fuel whose products of combustion pass through a stack or other outlet. The heat input value

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used shall be the equipment manufacturer or designer's guaranteed maximum input, whichever is greater. The total heat input of all fuel-burning units on a plant or premises shall be used for determining the maximum allowable amount of particulate matter which may be emitted.

- D. No person shall cause, suffer, allow or permit the emission of particulate matter, caused by combustion of fuel, from any fuel-burning operation in excess the quantity set forth in the following table:

| HEAT INPUT MILLIONS OF BRITISH THERMAL UNITS (BTU) PER HOUR | MATTER IN POUNDS PER HOUR PER MILLION BRITISH THERMAL UNITS (BTU) OF HEAT INPUT |
|--|---|
| MAXIMUM ALLOWABLE EMISSION OF PARTICULATE | |
| BASED UPON 24 HOUR ARITHMETIC AVERAGE | |
| 10 | 0.599 |
| 50 | 0.413 |
| 100 | 0.352 |
| 500 | 0.243 |
| 1,000 | 0.207 |
| 4,000 | 0.153 |
| 8,000 | 0.103 |
| 10,000 | 0.0909 |
| 15,000 | 0.0722 |
| 20,000 | 0.0613 |
| 40,000 | 0.0414 |
| 50,000 | 0.0364 |
| 100,000 | 0.0246 |

- E. Interpolation of the data in this table for heat inputs greater then ten but less than 4,000 million Btu per hour shall be accomplished by use of the equation $Y = 1.02X^{-0.231}$. Interpolation and extrapolation of the data for heat inputs equal to or greater than 4,000 million Btu per hour shall be accomplished by use of the equation $Y = 17.0X^{-0.568}$ where Y = allowable rate of emission in pounds per million Btu and X = maximum equipment capacity rate in million Btu per hour.

Replacement section(s): *Chapter 5, Article 21.*

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REG. 7-3-1.8 PROCESS INDUSTRIES

A. No person shall cause, suffer, allow or permit the discharge of particulate matter into the atmosphere in any one hour from any existing process source whatsoever, except incineration and fuel-burning equipment, in total quantities in excess of the amount calculated by the equation presented below and as illustrated by the following table on the allowable rate of emission based on process weight rate:

| PROCESS WEIGHT RATE | | EMISSION RATE | | PROCESS WEIGHT RATE | | EMISSION RATE | |
|---------------------|----------|---------------|-----------|---------------------|--------|---------------|--------|
| Lbs/Hr. | Tons/Hr. | Lbs/Hr. | Lbs/Hr. | Tons/Hr | Lbs/Hr | Lbs/Hr | Lbs/Hr |
| 100 | 0.05 | 0.551 | 16,000 | 8.00 | 16.5 | | |
| 200 | 0.10 | 0.877 | 18,000 | 9.00 | 17.9 | | |
| 400 | 0.20 | 1.40 | 20,000 | 10.00 | 19.2 | | |
| 600 | 0.30 | 1.83 | 30,000 | 15.00 | 25.2 | | |
| 800 | 0.40 | 2.22 | 40,000 | 20.00 | 30.5 | | |
| 1,000 | 0.50 | 2.58 | 50,000 | 25.00 | 35.4 | | |
| 1,500 | 0.75 | 3.38 | 60,000 | 30.00 | 40.0 | | |
| 2,000 | 1.00 | 4.10 | 70,000 | 35.00 | 41.3 | | |
| 2,500 | 1.25 | 4.76 | 80,000 | 40.00 | 42.5 | | |
| 3,000 | 1.50 | 5.38 | 90,000 | 45.00 | 43.6 | | |
| 3,500 | 1.75 | 5.96 | 100,000 | 50.00 | 44.6 | | |
| 4,000 | 2.00 | 6.52 | 120,000 | 60.00 | 46.3 | | |
| 5,000 | 2.50 | 7.58 | 140,000 | 70.00 | 47.8 | | |
| 6,000 | 3.00 | 8.56 | 160,000 | 80.00 | 49.0 | | |
| 7,000 | 3.50 | 9.49 | 200,000 | 100.00 | 51.0 | | |
| 8,000 | 4.00 | 10.4 | 1,000,000 | 500.00 | 69.0 | | |
| 9,000 | 4.50 | 11.2 | 2,000,000 | 1,000.00 | 77.6 | | |
| 10,000 | 5.00 | 12.0 | 6,000,000 | 3,000.00 | 92.7 | | |
| 12,000 | 6.00 | 13.6 | | | | | |

NOTE: to use the table, determine the process weight rate as defined in Reg. 7-1-1.2, 14. Find this figure on the table, opposite which is the maximum number of pounds per hour of particulates which maybe discharged into the atmosphere in any one hour. The method used for determining allowable rates of emission based on process weight tables is as follows: Interpolation of the data in the process weight table for process weight rates up to 60,000 lbs/hr shall be accomplished by use of the equation $E = 4.10P^{0.67}$ and interpolation and extrapolation of the data for process weight rates in excess of 60,000 lbs/hr shall be accomplished by use of the equation $E = 55.0P^{0.11} - 40.0$, where E = rate of emission in lbs/hr and P = process weight rate in tons/hr. (See following examples)

EXAMPLE A: Process weight = tons per hour

Equation - $E = 4.10 p^{0.67}$
 $\text{Log } E = \text{Log } 4.10 + (0.67) (\text{Log } 6)$
 $\text{Log } E = 0.6128 + (0.67) (0.7782)$
 $\text{Log } E = 0.6128 + 0.5214$

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$$\begin{aligned}\text{Log } E &= 1.1342 \\ E &= \text{Anti-Log } 1.1342 \\ E &= 13.6 \text{ pounds per hour}\end{aligned}$$

EXAMPLE B: Process weight

$$\begin{aligned}\text{Equation - } E &= 55.0 P^{0.11} - 40.0 \\ \text{Log } (E+40.0) &= \text{Log } 55.0 + (0.11) (\text{Log } 6) \\ \text{Log } (E+40.0) &= 1.7404 + (0.11) (1.7782) \\ \text{Log } (E+40.0) &= 1.7404 + 0.1956 \\ \text{Log } (E+40.0) &= 1.9360 \\ (E+40.0) &= \text{Anti-log } 1.9360 \\ (E+40.0) &= 86.3 \\ &= 86.3 - 40.0 \\ &= 46.3 \text{ pounds per hour}\end{aligned}$$

- C. Any process source subject to allowable rate of emissions as defined in 7-3-1.8 A must capture, to the maximum practical extent, all particulate matter resulting from Operation of individual equipment comprising the complete process. Failure to control these "Fugitive" emissions in a manner satisfactory to the Director, or which exceed the requirements of Reg. 7-3-1.1, will result in a non-compliance status even though the requirements of 7-3-1.8 A have been complied with. Fugitive dust resulting from vehicular movement required by normal operation of a process source must be controlled as defined by Reg. 7-3-1.2.

Replacement section(s): §5-24-1032.

REG. 7-3-2.2 FUEL BURNING INSTALLATIONS SULFUR COMPOUNDS

- A. This regulation applies to an installation operated for the purpose of producing power with a resulting discharge of sulfur dioxide in the installation's effluent gases.
- B. Steam power generating installations which are new sources shall not emit more than 0.80 pounds of sulfur dioxide, maximum two-hour average, per million Btu heat input when oil is fired. Steam power generating installations which are existing sources shall not emit more than 1.0 pounds of sulfur dioxide maximum two-hour average, per million Btu heat input when oil is fired.
- C. Steam power generating installations which are new sources shall not emit more than 0.80 pounds of sulfur dioxide, maximum two-hour average, per million Btu heat input when coal is fired. Steam power generating installations which are existing sources shall not emit more than 1.0 pounds of sulfur dioxide, maximum two-hour average, per million Btu heat input when coal is fired.

Replacement section(s): Chapter 5, Article 22.

REG. 7-3-2.3 SULFITE PULP MILLS SULFUR COMPOUNDS

No person shall cause, suffer, allow or permit discharge into the atmosphere of an amount in excess of nine pounds of sulfur oxides, calculated as sulfur dioxide, per air-dried ton of pulp produced from a sulfite pulp mill. The total emissions shall include sulfur oxides emitted from blow pits, washer vents, storage tanks and digester relief and recovery system.

Replacement section(s): §5-24-1045.

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REG. 7-3-2.4 SULFURIC ACID PLANTS *SULFUR COMPOUNDS*

- A. No person shall cause, suffer, allow or permit discharge into the atmosphere of more than 4.0 pounds of sulfur dioxide per ton of sulfuric acid produced (calculated as 100 percent H₂SO₄), the maximum two-hour average, from facilities that produce sulfuric acid by the contact process by burning elemental sulfur, alkylation add, hydrogen sulfide, organic sulfides and mercaptan or acid sludge.
- B. No person shall cause, suffer, allow or permit discharge into the atmosphere of more than 0.15 pounds of sulfuric acid mist per ton of sulfuric acid produced (calculated as 100 percent H₂SO₄), maximum two-hour average, expressed as H₂SO, from facilities that produce sulfuric acid by the contact process by burning elemental sulfur, alkylation acid, hydrogen sulfide, organic sulfides and mercaptans or acid sludge.
- C. This regulation shall not apply to existing sources not to metallurgical plants or other facilities where Conversion to sulfuric acid is utilized as a means of controlling emission to the atmosphere of sulfur dioxide or other sulfur compounds.

Replacement section(s): §6-1-030.10.

REG. 7-3-2.5 OTHER INDUSTRIES *SULFUR COMPOUNDS*

Inferentially rescinded; see 65 FR 58500 (9/29/00).

REG. 7-3-3.1 STORAGE OF VOLATILE ORGANIC COMPOUNDS - *ORGANIC COMPOUND EMISSIONS*

Superseded from SIP - see 65 FR 81371 (12/26/00).

REG. 7-3-3.2 LOADING OF VOLATILE ORGANIC COMPOUNDS - *ORGANIC COMPOUND EMISSIONS*

Superseded from SIP - see 65 FR 81371 (12/26/00).

REG. 7-3-3.3 PUMPS AND COMPRESSORS - *ORGANIC COMPOUND EMISSIONS*

Superseded from SIP - see 65 FR 81371 (12/26/00).

REG. 7-3-3.4 ORGANIC SOLVENTS: OTHER VOLATILE COMPOUNDS - *ORGANIC COMPOUND EMISSIONS*

Inferentially rescinded; see 66 FR 49293 (9/27/01).

REG. 7-3-4.1 INDUSTRIAL - *CARBON MONOXIDE EMISSIONS*

No person shall cause, suffer, allow or permit discharge from any source carbon monoxide emissions without the use of complete secondary combustion of waste gases generated by any process source.

Replacement section(s): §5-24-1030.I.

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REG. 7-3-5.1 FUEL-BURNING EQUIPMENT - NITROGEN OXIDE EMISSIONS

- A. This regulation applies to an installation operated for the purpose of producing power with a resulting discharge of nitrogen oxides in the installation effluent gases.
- B. Steam power generating installations which are new sources shall not emit more than 0.20 pounds of nitrogen oxides, maximum two-hour average, calculated as nitrogen dioxide, per million Btu heat input when gaseous fossil fuel is fired.
- C. Steam power generating installations which are new sources shall not emit more than 0.30 pounds of nitrogen oxides, maximum two-hour averages calculated as nitrogen dioxide, per million Btu heat input when liquid fossil fuel is fired.
- D. Steam power generating installations which are new sources shall not emit more than 0.70 pounds of nitrogen Oxides, maximum two-hour average, calculated as nitrogen dioxide, per million Btu heat input when solid fossil fuel is fired.

Replacement section(s): *Chapter 4, Article 22.*

REG. 7-3-5.2 NITRIC ACID PLANTS - NITROGEN OXIDE EMISSIONS

- A. No person shall cause, suffer, allow or permit discharge from any new source nitric acid plant producing weak nitric acid, which is 30 to 70 percent in strength, by either the increased pressure or atmospheric pressure process, of more than 3.0 pounds of total oxides of nitrogen per ton of acid produced, maximum two-hour average, expressed as nitrogen dioxide.
- B. No person shall cause, suffer, allow or permit discharge from any existing source nitric acid plant producing weak nitric acid, which is 30 to 70 percent in strength, by either the increased pressure or atmospheric pressure process, of more than 5.5 pounds of total oxides of nitrogen per ton of acid produced, maximum two-hour average, expressed as nitrogen dioxide.

Replacement section(s): *§6-1-030.9.*

REG. 7-3-6.1 POLICY AND LEGAL AUTHORITY - MAJOR SOURCES

Deleted from SIP - see 65 FR 79742 (12/20/00).

APPENDIX I. Pinal-Gila Counties Air Quality Control District Rules of March 31, 1975 - SIP Approved at 44 FR 73033

This constitutes that subset of the rules adopted by the Pinal County Board of Supervisors on 3/31/75, which subset contains only those rules approved by the Administrator as part of the Arizona State Implementation Plan ("SIP") at 44 FR 73033 (12/17/79). Where required for purposes of maintaining an adequate SIP, the Board of Supervisors has conditionally adopted successor rules for each of these provisions. Accordingly, each of these provisions has been conditionally repealed, conditioned upon prior EPA approval of a corresponding SIP revision. See Appendix K for a log of relevant EPA action.

REG. 7-2-1.8 ANTI-DEGRADATION

Deleted from SIP - see 66 FR 21676 (5/1/01).

REG. 7-3-2.5 OTHER INDUSTRIES SULFUR COMPOUNDS

Replaced by SIP-approved §§5-22-950, 5-22-960 and 5-24-1024; see 65 Fed. Reg. 58500 (9/29/00).

APPENDIX J. Pinal-Gila Counties Air Quality Control District Rules of June 16, 1980 - SIP Approved at 47 FR 15579

This constitutes that subset of the rules adopted by the Pinal County Board of Supervisors on 6/16/80, which subset contains only those rule approved by the Administrator as part of the Arizona State Implementation Plan ("SIP") at 47 FR 15579 (4/12/82).

Where required for purposes of maintaining an adequate SIP, the Board of Supervisors has conditionally adopted successor rules for each of these provisions. Accordingly, each of these provisions has been conditionally repealed, conditioned upon prior EPA approval of a corresponding SIP revision. See Appendix K for a log of relevant EPA action.

REG. 7-1-1.2 DEFINITIONS

Deleted from SIP - see 66 FR 21676 (5/1/01).

REG. 7-1-1.3 AIR POLLUTION PROHIBITED

* * *

Deleted from SIP - see 66 FR 21676 (5/1/01).

REG. 7-3-1.1 VISIBLE EMISSIONS: GENERAL

Except as otherwise provided in these regulations relating to specific types of sources, the opacity of any plume or effluent shall not be greater than 40 percent as determined by reference method 9 in the Arizona Testing Manual.

Replacement section(s): Chapter 2, Article 8.

REG. 7-3-1.4 Incineration

* * *

C. The amount of particulate matter emitted shall be determined by generally recognized standards or methods of measurement. The Arizona Testing Manual shall be used as general rules but these may be modified, adjusted, or added to by the director to suit specific sampling conditions or needs based upon good practice, judgement and experience.

Replacement section(s): §3-1-160 (SIP provision) & §5-3-100. (Non-SIP provision)

REG. 7-3-1.7 FUEL-BURNING EQUIPMENT

* * *

F. Stack emission test to determine the amount of particulate matter emitted shall be performed in accordance with Reg. 7-3-1.1 which designates The Arizona Testing Manual.

Replacement section(s): §3-1-160.

REG. 7-3-3.4 ORGANIC SOLVENTS: VOLATILE ORGANIC COMPOUNDS

Deleted as a SIP element without replacement. See 66 Fed. Reg. 49293 (9/27/01).

APPENDIX K. Pinal County Applicable State Implementation Plan

This constitutes an informational record of the EPA-furnished schedule of those provisions of Pinal County's rules currently constitute elements of the Arizona SIP. Although best efforts have been exercised to assure that this information is accurate, it is merely an administrative transcription by the District staff, the reader should understand that the EPA's actions as noticed in the Federal Register actually constitute the official record of SIP-approvals.

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APPENDIX K. Action Log of SIP Revisions Affecting Pinal County

| Rule # | Rule Title | Adopt Date | Subm Date | EPA Action | FR Date | Cite |
|---|--|-------------------|------------------|-------------------|----------------|-------------|
| CHAPTER I - GENERAL PROVISIONS AND DEFINITIONS | | | | | | |
| ARTICLE 1-PROVISIONS | | | | | | |
| | Section 1-1-010 Declaration of Policy | 02/22/95 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 1-1-020 Air Quality Control District | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 1-1-030 Executive Head | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 1-1-040 Investigative Authority | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 1-1-050 Authorization to accept funds or grants | 06/29/93 | 11/27/95 | App | 04/09/96 | 61 FR 15717 |
| | Section 1-1-050 Authorization to Accept Funds or Grants | EPA initiative | | Deleted | 12/20/00 | 65 FR 79742 |
| | Section 1-1-055 Authorization to charge and collect fees | 02/22/95 | 11/27/95 | App | 04/09/96 | 61 FR 15717 |
| | Section 1-1-055 Authorization to Collect Funds or Fees | EPA initiative | | Deleted | 12/20/00 | 65 FR 79742 |
| | Section 1-1-060 Investigative Authority | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 1-1-070 Severability clause | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 1-1-080 Preservation of rights | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 1-1-090 Copies and effective date | 11/3/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 1-1-100 Selecting interpretation | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 1-1-105 SIP List | 10/12/95 | 11/27/95 | App | 04/09/96 | 61 FR 15717 |
| | Section 1-1-105 SIP List | EPA initiative | | Deleted | 12/20/00 | 65 FR 79742 |
| | Section 1-1-106 Jurisdiction Statements | 02/22/95 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| ARTICLE 2-INCORPORATED MATERIALS | | | | | | |
| | Section 1-2-110 Adopted documents | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 1-2-110 Adopted documents | 07/29/98 | 10/07/98 | Rejected | 11/13/02 | 67 FR 68674 |

APPENDIX K. Action Log of SIP Revisions Affecting Pinal County

| Rule # | Rule Title | Adopt Date | Subm Date | EPA Action | FR Date | Cite |
|--|---|-------------------|------------------|-------------------|----------------|-------------|
| | Section 1-2-120 Adoptions by reference | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| ARTICLE 3-DEFINITIONS | | | | | | |
| | Section 1-3-130 Adopted documents | 10/12/95 | 11/27/95 | App | 04/09/96 | 61 FR 15717 |
| | Section 1-3-130 Adopted documents | 10/12/95 | EPA Initiative | Deleted | 11/13/02 | 67 FR 68764 |
| | Section 1-3-130 Adopted documents | 05/14/97 | 10/07/98 | Rejected | 11/13/02 | 67 FR 68764 |
| | Section 1-3-140 Definitions | 10/12/95 | 11/27/95 | App | 04/09/96 | 61 FR 15717 |
| | Section 1-3-140 Definitions | 07/29/98 | 10/07/98 | App | 11/13/02 | 67 FR 68764 |
| CHAPTER 2 - AMBIENT AIR QUALITY STANDARDS | | | | | | |
| ARTICLE 1-AIR QUALITY STANDARDS | | | | | | |
| | Section 2-1-010 Purpose | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 2-1-020 Particulate matter | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 2-1-030 Sulfur oxide (sulfur dioxide) | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 2-1-040 Ozone | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 2-1-050 Carbon monoxide | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 2-1-060 Nitrogen oxide | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 2-1-070 Lead | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| ARTICLE 2-AMBIENT AIR QUALITY MONITORING METHODS & PROCEDURES | | | | | | |
| | Section 2-2-080 Air quality monitoring methods | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 2-2-090 Air quality monitoring procedures | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |

APPENDIX K. Action Log of SIP Revisions Affecting Pinal County

| Rule # | Rule Title | Adopt Date | Subm Date | EPA Action | FR Date | Cite |
|--|--|-------------------|------------------|-------------------|----------------|-------------|
| ARTICLE 3- INTERPRETATION OF AMBIENT AIR QUALITY STANDARDS & EVALUATION OF AIR QUALITY DATA | | | | | | |
| | Section 2-3-100 Interpretation of ambient air quality standards | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 2-3-110 Evaluation of air quality data | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| ARTICLE 4-ATTAINMENT AREA CLASSIFICATION | | | | | | |
| | Section 2-4-120 Purpose | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 2-4-130 Adopted document(s) | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 2-4-140 Area classifications & Pinal County | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 2-4-150 Attainment status in Pinal County | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| ARTICLE 5-LIMITATION OF POLLUTANTS IN ATTAINMENT AREAS | | | | | | |
| | Section 2-5-160 Ambient air increment ceilings | 10/12/95 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 2-5-170 Baseline concentration | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 2-5-180 Baseline date | 10/12/95 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 2-5-190 Baseline area | 02/22/95 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 2-5-200 Exemptions | 02/22/95 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 2-5-210 Violations of maximum allowable increases | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| ARTICLE 6-VIOLATIONS | | | | | | |
| | Section 2-6-220 Violations of the national ambient air quality standards | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |

APPENDIX K. Action Log of SIP Revisions Affecting Pinal County

| Rule # | Rule Title | Adopt Date | Subm Date | EPA Action | FR Date | Cite |
|--|---|-------------------|------------------|-------------------|----------------|-------------|
| ARTICLE 7-AIR POLLUTION EMERGENCY EPISODES | | | | | | |
| | Section 2-7-230 Purpose | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 2-7-240 Episode procedures guidelines | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 2-7-250 Definitions | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 2-7-260 Standards | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 2-7-270 Administrative requirements | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| ARTICLE 8-VISIBILITY LIMITING STANDARD | | | | | | |
| | Section 2-8-280 General [Visible Emissions] | 06/29/93 | 11/27/95 | App | 04/28/04 | 69 FR 23103 |
| | Section 2-8-290 Definitions [Visible Emissions] | 06/29/93 | 11/27/95 | App | 04/28/04 | 69 FR 23103 |
| | Section 2-8-300 Performance Standards [Visible Emissions] | 05/18/05 | 09/12/05 | App | 03/27/06 | 71 FR 15043 |
| | Section 2-8-302 Performance Standards – Hayden PM10 Non-attainment Area | 01/07/09 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |
| | Section 2-8-310 Exemptions [Visible Emissions] | 06/29/93 | 11/27/95 | App | 04/28/04 | 69 FR 23103 |
| | Section 2-8-320 Monitoring and Records [Visible Emissions] | 06/29/93 | 11/27/95 | App | 04/28/04 | 69 FR 23103 |
| CHAPTER 3 - PERMITS AND PERMIT REVISIONS | | | | | | |
| ARTICLE 1-GENERAL PROVISIONS RELATING TO PERMITS AND PERMIT REVISIONS | | | | | | |
| | Section 3-1-010 Purpose | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-020 Adopted Documents | 06/29/93 | 11/27/95 | App | 04/09/96 | 61 FR 15717 |
| | Section 3-1-020 Adopted documents | 06/29/93 | EPA Initiative | Deleted | 11/13/02 | 67 FR 68674 |
| | Section 3-1-020 Adopted documents | 05/14/97 | 10/07/98 | Rejected | 11/13/02 | 67 FR 68674 |
| | Section 3-1-030 Definitions | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-040 Applicability and classes of permits | 10/12/95 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |

APPENDIX K. Action Log of SIP Revisions Affecting Pinal County

| Rule # | Rule Title | Adopt Date | Subm Date | EPA Action | FR Date | Cite |
|---------------|--|-------------------|------------------|-------------------|----------------|-------------|
| | Section 3-1-042 Operating authority and obligations for a source subject to permit reopening | 02/22/95 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-045 Transition from installation and operating permit program | | | Omitted | 12/20/00 | 65 FR 79742 |
| | | | | App | 12/05/01 | 66 FR 63166 |
| | Section 3-1-050 Permit application requirements | 10/12/95 | 11/27/95 | App | 12/05/01 | 66 FR 63166 |
| | Section 3-1-055 Completeness determination | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-060 Permit application review process | 02/22/95 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-065 Permit review by EPA and affected states | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-070 Permit applications grant or denial | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-080 Appeals to the Hearing Board | 02/22/95 | 11/27/95 | App | 04/09/96 | 61 FR 15717 |
| | Section 3-1-080 Appeals to the Hearing Board | | EPA initiative | Deleted | 12/20/00 | 65 FR 79742 |
| | Section 3-1-081 Permit conditions | 09/05/01 | 09/18/01 | App | 12/05/01 | 66 FR 63166 |
| | Section 3-1-082 Emission standards and limitations | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-083 Compliance provisions | 02/22/95 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-084 Voluntarily Accepted Federally Enforceable Emissions Limitations; Applicability; Reopening; Effective Date | 08/15/94 | | App | 04/09/96 | 61 FR 15717 |
| | Section 3-1-084 Voluntarily Accepted Federally Enforceable Emissions Limitations; Applicability; Reopening; Effective Date | 02/22/95 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-085 Notice by building permit agencies | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-087 Permit reopenings, reissuance and termination | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-089 Permit term, renewal and expiration | 02/22/95 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-090 Permit transfer | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-100 Permit posting | | | Omitted | 12/20/00 | 65 FR 79742 |

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| Rule # | Rule Title | Adopt Date | Subm Date | EPA Action | FR Date | Cite |
|---------------|---|-------------------|------------------|-------------------|----------------|-------------|
| | Section 3-1-102 Permit shields | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-103 Annual emissions inventory questionnaire | 02/22/95 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-105 Permits containing the terms and conditions of federal delayed compliance orders (DCO) or consent decrees | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-107 Public notice and participation | | 08/15/94 | App | 04/09/96 | 61 FR 15717 |
| | Section 3-1-107 Public notice and participation | 02/22/95 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-109 Material permit condition | 02/22/95 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-110 Investigative authority | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-120 Confidentiality of records | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-132 Permit imposed right of entry | 06/29/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-140 Permit revocation | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-150 Monitoring | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-160 Test methods and procedures | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-170 Performance tests | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-173 Quality assurance | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-175 Certification of truth, accuracy and completeness | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-1-177 Stack height limitation | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |

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| Rule # | Rule Title | Adopt Date | Subm Date | EPA Action | FR Date | Cite |
|--|--|-------------------|------------------|-------------------|----------------|-------------|
| ARTICLE 2-PERMIT AMENDMENTS AND REVISIONS | | | | | | |
| | Section 3-2-180 Facility changes allowed without permit revisions | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-2-185 Administrative permit amendments | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-2-190 Minor permit revisions | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-2-195 Significant permit revisions | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| ARTICLE 3 | | | | | | |
| | Section 3-3-200 PURPOSE | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-3-203 DEFINITIONS | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-3-205 APPLICATION REQUIREMENTS | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-3-210 APPLICATION REVIEW PROCESS | 2/22/95 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-3-250 PERMIT & PERMIT REVISION REQUIREMENTS FOR SOURCES LOCATED IN ATTAINMENT & UNCLASSIFIED AREAS | 2/22/95 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-3-260 AIR QUALITY IMPACT ANALYSIS & MONITORING REQUIREMENTS | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-3-270 INNOVATIVE CONTROL Technology | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-3-275 AIR QUALITY MODELS | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| | Section 3-3-280 VISIBILITY PROTECTION | 11/03/93 | 11/27/95 | App | 12/20/00 | 65 FR 79742 |
| ARTICLE 5 GENERAL PERMITS | | | | | | |
| | Section 3-5-490 Application for Coverage under a General Permit | 9/5/01 | 9/18/01 | App | 12/5/01 | 66 FR 63166 |

| | | | | | |
|--|----------|----------|-----|----------|-------------|
| Section 3-5-550 Revocations of authority to operate under a general permit | 9/5/01 | 9/18/01 | App | 12/5/01 | 66 FR 63166 |
| ARTICLE 8 - Open Burning | | | | | |
| Section 3-8-700 General Provisions [Open Burning] | 10/27/04 | 12/30/04 | App | 05/16/06 | 71 FR 28270 |

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| Rule # | Rule Title | Adopt Date | Subm Date | EPA Action | FR Date | Cite |
|---|---|-------------------|------------------|-------------------|----------------|-------------|
| | Section 3-8-710 Permit Provisions and Administration [Open Burning] | 10/27/04 | 12/30/04 | App | 05/16/06 | 71 FR 28270 |
| Chapter 4 - Emissions from Existing and New Non-Point Sources | | | | | | |
| Article 1 - Adopted Documents | | | | | | |
| | Section 4-1-010 Adopted documents | 06/29/93 | 10/07/98 | Rejected | 11/13/02 | 67 FR 68674 |
| | Section 4-1-010 Adopted documents | 05/14/97 | 10/07/98 | Rejected | 11/13/02 | 67 FR 68674 |
| | Section 4-2-020 Fugitive Dust – General | 12/04/02 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |
| | Section 4-2-030 Fugitive Dust – Definitions | 12/04/02 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |
| | Section 4-2-040 Standards [Fugitive Dust] | 06/29/93 | 11/27/95 | App | 08/01/07 | 72 FR 41896 |
| | Section 4-2-050 Monitoring and Records [Fugitive Dust] | 05/14/97 | 10/07/98 | App | 08/01/07 | 72 FR 41896 |
| Article 4 – PM-10 Nonattainment Area Rules; Dustproofing and Stabilization For Commercial Unpaved Parking, Drives and Working Yards | | | | | | |
| | Section 4-4-100 General Provisions | 06/03/09 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |
| | Section 4-4-110 Definitions | 06/03/09 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |
| | Section 4-4-120 Objective Standards | 06/03/09 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |
| | Section 4-4-130 Work Practice Standards | 06/03/09 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |
| Article 5 – Nonattainment Area Rules; Stabilization for Residential Parking and Drives | | | | | | |
| | Section 4-5-150 Applicability | 06/03/09 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |
| | Section 4-5-160 Residential Parking Control Requirement | 06/03/09 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |
| | Section 4-5-170 Deferred enforcement date | 06/03/09 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |

Article 7 – Construction Sites in Nonattainment Area – Fugitive Dust

| | | | | | |
|--|----------|----------|-----|----------|-------------|
| Section 4-7-210 Definitions | 06/03/09 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |
| Section 4-7-214 General Provisions | 06/03/09 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |
| Section 4-7-222 Owner and/or Operator Liability | 06/03/09 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |
| Section 4-7-226 Objective Standards; Sites | 06/03/09 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |
| Section 4-7-230 Obligatory Work Practices Standards; Sites | 06/03/09 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |
| Section 4-7-234 Nonattainment – Area Dust Permit Program; General Provisions | 06/03/09 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |
| Section 4-7-238 Nonattainment Area Site Permits | 06/03/09 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |
| Section 4-7-242 Nonattainment Area Block Permits | 06/03/09 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |
| Section 4-7-246 Recordkeeping and Records Retention | 06/03/09 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |

Article 9 – Test Methods

| | | | | | |
|---|----------|----------|-----|----------|-------------|
| Section 4-9-320 Test Methods for Stabilization for Unpaved Roads and Unpaved Parking Lots | 06/03/09 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |
| Section 4-9-340 General Provisions | 06/03/09 | 06/12/09 | App | 04/06/10 | 75 FR 17307 |

Chapter 5 - Stationary Source Performance Standards

Article 18 - Storage of Organic Liquids

| | | | | | |
|---|----------|----------|---------|----------|-------------|
| Section 5-18-740 Storage of Volatile Organic Compounds – Organic Compound Emissions | 02/22/95 | 11/27/95 | Partial | 12/26/00 | 65 FR 81371 |
|---|----------|----------|---------|----------|-------------|

Article 19 - Loading of Organic Liquids

| | | | | | |
|--------------------------|----------|----------|---------|----------|-------------|
| Section 5-19-800 General | 02/22/95 | 11/27/95 | Partial | 12/26/00 | 65 FR 81371 |
|--------------------------|----------|----------|---------|----------|-------------|

APPENDIX K. Action Log of SIP Revisions Affecting Pinal County

| Rule # | Rule Title | Adopt Date | Subm Date | EPA Action | FR Date | Cite |
|---|---|------------|-----------|------------|----------|-------------|
| Article 22 - Fossil Fuel-fired Steam Generators | | | | | | |
| | Section 5-22-950 - Fossil Fuel Fired Steam Generator Applicability | 02/22/95 | 11/27/95 | App. | 9/29/00 | 65 FR 58359 |
| | Section 5-22-960 - Fossil Fuel Fired Steam Generator Sulfur Dioxide Emission Limitation | 02/22/95 | 11/27/95 | App. | 9/29/00 | 65 FR 58359 |
| Article 24 - Miscellaneous and Unclassified Source Requirements | | | | | | |
| | Section 5-24-1032 Federal Enforceable Minimum Standard Of Performance-Process Particulate Emissions | 02/22/95 | 11/27/95 | Partial | 4/17/12 | 77 FR 22676 |
| | Section 5-24-1045 [erroneously labeled 5-24-1024 in FR Notice] - Sulfite Pulp Mills - Sulfur Compound Emissions | 02/22/95 | 11/27/95 | App. | 9/29/00 | 65 FR 58359 |
| | Section 5-24-1040 - Carbon Monoxide Emissions – Industrial Process | 02/22/95 | 11/27/95 | Partial | 04/28/04 | 69 FR 23103 |
| | Section 5-24-1055 - Pumps and Compressors - Organic Compound Emissions | 02/22/95 | 11/27/95 | Partial | 12/26/00 | 65 FR 81371 |
| 7-1-1 GENERAL | | | | | | |
| | 7-1-1.1 Policy and Legal Authority | | 07/01/75 | App | 11/15/78 | 43 FR 53031 |
| | | | | Deleted | 07/25/01 | 66 FR 38565 |
| | 7-1-1.2 Definitions | | 08/07/80 | App | 04/12/82 | 47 FR 15580 |
| | | | 07/01/75 | App | 11/15/78 | 43 FR 53031 |
| | | | | Deleted | 07/25/01 | 66 FR 38565 |
| | 7-1-1.3 Air Pollution Prohibited (C) | | 08/07/80 | App | 04/12/82 | 47 FR 15580 |
| | | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| | | | | Deleted | 07/25/01 | 66 FR 38565 |

APPENDIX K. Action Log of SIP Revisions Affecting Pinal County

| Rule # | Rule Title | Adopt Date | Subm Date | EPA Action | FR Date | Cite |
|--------------------------|--|-------------------|------------------|-------------------|----------------------|----------------------------|
| 7-1-2 | PERMITS: INSTALLATION AND OPERATING | | | | | |
| 7-1-2.2 | Permit Unit Description and Fees | | 07/01/75 | App Deleted | 11/15/78 12/20/00 | 43 FR 53034 65 FR 79742 |
| 7-1.2.4 | Appeals to Hearing Board | | 07/01/75 | App Deleted | 11/15/78 12/20/00 | 43 FR 53034 65 FR 79742 |
| 7-1-2.5 | Transfer: Expiration: Posting | | 07/01/75 | App Deleted | 11/15/78 07/25/01 | 43 FR 53034 66 FR 38565 |
| 7-1-2.6 | Recordkeeping and Reporting | | 07/01/75 | App Deleted | 11/15/78 07/25/01 | 43 FR 53034 66 FR 38565 |
| 7-1-2.7 | Enforcement | | 07/01/75 | App Deleted | 11/15/78 12/20/00 | 43 FR 53034 65 FR 79742 |
| 7-1-4 | ORDERS OF ABATEMENT | | | | | |
| 7-1-4.1 | Violations: Order of Abatement Time for Compliance | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| 7-1-4.1 | Violations: Order of Abatement Time for Compliance | | EPA initiative | Deleted | 6/27/97 | 62 FR 34641 |
| 7-1-4.2 | Hearings on Orders of Abatement | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| 7-1-4.2 | Hearings on Orders of Abatement | | EPA initiative | Deleted | 6/27/97 | 62 FR 34641 |
| REVIEW PROCEDURES | | | | | | |
| 7-1-5.1 | Classification and Reporting: Production of Records: Confidentiality of Records: Violation: Penalty | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |

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| Rule # | Rule Title | Adopt Date | Subm Date | EPA Action | FR Date | Cite |
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| 7-1-5.1 | Classification and Reporting: Production of Records: Confidentiality of Records: Violation: Penalty | | EPA initiative | Deleted | 6/27/97 | 62 FR 34641 |
| 7-1-5.2 | Special Inspection Warrant | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| 7-1-5.2 | Special Inspection Warrant | | EPA initiative | Deleted | 6/27/97 | 62 FR 34641 |
| 7-1-5.3 | Decisions of Hearing Boards: Subpoenas: Effective Date | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| 7-1-5.3 | Decisions of Hearing Boards: Subpoenas: Effective Date | | EPA initiative | Deleted | 6/27/97 | 62 FR 34641 |
| 7-1-5.4 | Judicial Review: Grounds: Procedures | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| 7-1-5.4 | Judicial Review: Grounds: Procedures | | EPA initiative | Deleted | 6/27/97 | 62 FR 34641 |
| 7-1-5.5 | Notice of Hearing: Publication: Service | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| 7-1-5.5 | Notice of Hearing: Publication: Service | | EPA initiative | Deleted | 6/27/97 | 62 FR 34641 |
| 7-1-5.6 | Injunctive Relief | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| 7-1-5.6 | Injunctive Relief | | EPA initiative | Deleted | 6/27/97 | 62 FR 34641 |
| 7-2-1 | AMBIENT AIR QUALITY STANDARDS | | | | | |
| 7-2-1.1 | Non-Specific Particulate | | 07/01/75 | App Deleted | 11/15/78 07/25/01 | 43 FR 53034 66 FR 38565 |

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| 7-2-1.2 | Sulfur Dioxide | | 07/01/75 | App Deleted | 11/15/78 07/25/01 | 43 FR 53034 66 FR 38565 |
| 7-2-1.3 | Non-Methane Hydrocarbons | | 07/01/75 | App Deleted | 11/15/78 12/20/00 | 43 FR 53034 65 FR 79742 |
| 7-2-1.4 | Photochemical Oxidants | | 07/01/75 | App Deleted | 11/15/78 07/25/01 | 43 FR 53034 66 FR 38565 |
| 7-2-1.5 | Carbon Monoxide | | 07/01/75 | App Deleted | 11/15/78 07/25/01 | 43 FR 53034 66 FR 38565 |
| 7-2-1.6 | Nitrogen Dioxide | | 07/01/75 | App Deleted | 11/15/78 07/25/01 | 43 FR 53034 66 FR 38565 |
| 7-2-1.7 | Evaluation | | 07/01/75 | App Deleted | 11/15/78 07/25/01 | 43 FR 53034 66 FR 38565 |
| 7-2-1.8 | Anti-Degradation | | 07/01/75 | App Deleted | 12/17/79 07/25/01 | 44 FR 73033 66 FR 38565 |
| 7-3-1 EMISSION STANDARDS-PARTICULATES | | | | | | |
| 7-3-1.1 | Visible Emissions: General | | 08/07/80 | App | 04/12/82 | 47 FR 15580 |
| 7-3-1.2 | Fugitive Dust | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| 7-3-1.3 | Open Burning | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| 7-3-1.4 | Incineration(c) | | 08/07/80 | App | 04/12/82 | 47 FR 15580 |
| | | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| 7-3-1.5 | Wood Waste Burners | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| 7-3-1.6 | Reduction of Animal or Vegetable Matter | | 07/01/75 | App Deleted | 11/15/78 07/25/01 | 43 FR 53034 66 FR 38565 |
| 7-3-1.7 | Fuel Burning Equipment (F) | | 08/07/80 | App | 04/12/82 | 47 FR 15580 |
| | | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |

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| 7-3-1.8 | Process Industries | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| 7-3-2 | EMISSION STANDARDS - SULFUR DIOXIDE | | | | | |
| 7-3-2.2 | Fuel Burning Installations | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| 7-3-2.3 | Sulfite Pulp Mills | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| 7-3-2.4 | Sulfuric Acid Plants | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| 7-3-2.5 | Other Industries | | 07/01/75 | App | 12/17/79 | 44 FR 73033 |
| 7-3-2.5 | Other Industries | | 10/07/98 | Deleted | 9/29/00 | 65 FR 58500 |
| 7-3-3 | EMISSION STANDARDS - ORGANIC COMPOUNDS EMISSIONS FROM STATIONARY SOURCES | | | | | |
| 7-3-3.1 | Storage of Volatile Organic Compounds | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| 7-3-3.1 | Storage of Volatile Organic Compounds | | | Obviated | 12/26/00 | 65 FR 81371 |
| 7-3-3.2 | Loading of Volatile Organic Compounds | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| 7-3-3.2 | Loading of Volatile Organic Compounds | | | Obviated | 12/26/00 | 65 FR 81371 |
| 7-3-3.3 | Pumps and Compressors | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| 7-3-3.3 | Pumps and Compressors | | | Obviated | 12/26/00 | 65 FR 81371 |
| 7-3-3.4 | Organic Solvents: Volatile Organic Compounds | | 08/07/80 | App | 04/12/82 | 47 FR 15580 |
| 7-3-3.4 | Organic Solvents: Volatile Organic Compounds | | 08/07/80 | Deleted | 09/27/01 | 66 FR 49293 |
| 7-3-4 | EMISSIONS STANDARDS - CARBON MONOXIDE FROM STATIONARY SOURCES | | | | | |
| 7-3-4.1 | Industrial | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| 7-3-5 | EMISSION STANDARDS, - NITROGEN OXIDES | | | | | |
| 7-3-5.1 | Fuel Burning Equipment | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |
| 7-3-5.2 | Nitric Acid Plants | | 07/01/75 | App | 11/15/78 | 43 FR 53034 |

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| 7-3-6 | MAJOR SOURCES | | | | | |
| 7-3-6.1 | Policy and Legal Authority | | 07/01/75 | App Deleted | 11/15/78 12/20/00 | 43 FR 53034 65 FR 79742 |

**APPENDIX L. PROCEDURES FOR DETERMINING AMBIENT AIR
CONCENTRATIONS
FOR HAZARDOUS AIR POLLUTANTS**

INDEX

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SECTION 2 – CHRONIC AMBIENT AIR CONCENTRATIONS

SECTION 3 – ACUTE AMBIENT AIR CONCENTRATIONS

APPENDIX L

PROCEDURES FOR DETERMINING AMBIENT AIR CONCENTRATIONS FOR HAZARDOUS AIR POLLUTANTS

1. **APPLICABILITY:** The procedure described in Appendix L of these rules shall be used to develop chronic ambient air concentrations (CAACs) and acute ambient air concentrations (AAACs) for hazardous air pollutants (HAPs) for the following:
 - a. Any HAP not included in Chapter 7 Article 2 - Pinal County Hazardous Air Pollutants (HAPS) Program- Table 3-Acute And Chronic Ambient Air Concentrations of these rules; and
 - b. Any compound included in a group of HAPs listed in Chapter 7 Article 2- Pinal County Hazardous Air Pollutants (HAPS) Program-Table 3- Acute And Chronic Ambient Air Concentrations of these rules, other than those identified in the group listing as the “selected” compound.

2. **CHRONIC AMBIENT AIR CONCENTRATIONS:**
 - a. The applicant shall review the following data sources and, except as otherwise provided, shall give them the priority indicated in the development of chronic ambient air concentrations (CAACs):
 1. **Tier 1 Data Sources:** Reference Concentrations (RfCs) and air Unit Risk Factors (URFs) as presented in the Integrated Risk Information System (IRIS) of the United States Environmental Protection Agency (EPA).
 2. **Tier 2 Data Sources:**
 - a. Preliminary Remediation Goals (PRGs) developed by Region 9 of the EPA.
 - b. Risk-Based Concentrations (RBCs) developed by Region 3 of the EPA.
 3. **Tier 3 Data Sources:**
 - a. Minimal Risk Levels (MRLs) developed by the Agency For Toxic Substances And Disease Registry (ATSDR).
 - b. Reference Exposure Levels (RELs) and Unit Risk Factors (CalURFs) developed by the California Environmental Protection Agency.

b. Evaluation Of Tier 1 Values:

1. Calculation Of Concentrations:

- a. Reference Concentrations (RfCs) shall be multiplied by 1.04 to reflect an assumed exposure of 350 rather than 365 days per year.
- b. Unit Risk Factors (URFs) shall be transformed into concentrations in milligrams per cubic meter (mg/m³) by applying the following equation:

$$TR \times ATc / (EF \times IFA \text{ adj} \times [URF \times BW / IR])$$

Where:

- TR = 1E-06
- ATc = 25,550 days
- EF = 350 days/year
- IFA adj = 11m³-year/kg-day
- BW = 70 kg
- IR = 20 m³/day

2. Comparison To Tier 2 And Tier 3 Concentrations:

- a. The concentration developed in accordance with Section 2(b)(1) of this appendix shall be compared to the Tier 2 and Tier 3 concentrations for the compound, if any.
- b. Unit Risk Factor (URF)-based concentrations shall be compared only to concentrations based on Unit Risk Factors (CalURFs) developed by the California Environmental Protection Agency.
- c. Reference Concentrations (RfCs) – based concentrations shall be compared to concentrations based on preliminary Remediation Goals (PRGs), Risk-Based Concentrations (RBCs), Minimal Risk Levels (MRLs), and Reference Exposure Levels (RELs).
- d. If there is reasonable agreement between Tier 1 concentration and the other concentrations for the compound, the Tier 1 concentration shall be selected as the chronic ambient air concentration (CAAC).

- e. If the Tier 1 concentration is not in reasonable agreement with the other concentrations and one of the other concentrations is based on more recent or relevant studies, that concentration shall be selected as the chronic ambient air concentration (CAAC). Otherwise, the Tier 1 concentration shall be selected.
3. If both a Reference Concentration (RfC)-based and a Unit Risk Factor (URF)-based Tier 1 concentration is selected under Section 2(b)(2) of this appendix, the more stringent of the two shall be used as the chronic ambient air concentration (CAAC).
 4. If a Tier 1 value is selected in accordance with this section of this appendix, no further evaluation of Tier 2 or Tier 3 concentrations is required.

c. Evaluation of Tier 2 Concentrations:

1. Selection of Tier 2 Values for Further Evaluation:

- a. If there is only a Preliminary Remediation Goal (PRG) or Risk-Based Concentrations (RBCs) for the compound, it shall be selected for further evaluation in accordance with Section 2(c)(2) of this appendix.
- b. If there is both a Preliminary Remediation Goal (PRG) and a Risk-Based Concentration (RBC) for the compound, the concentrations shall be compared. If the concentrations are similar, the Preliminary Remediation Goal (PRG) shall be selected for further evaluation. If the concentrations are not similar and the Risk-Based Concentration (RBC) is based on more relevant or more recent studies, it shall be selected for further evaluation. Otherwise, the Preliminary Remediation Goal (RPG) shall be selected.

2. Comparison to Tier 3 Concentrations:

- a. The concentration developed in accordance with Section 2(c)(1) of this appendix shall be compared to the Tier 3 concentrations for the compound, if any. For purposes of this comparison, only Minimal Risk Level (MRL)-based or Reference Exposure Level (REL)-based concentration shall be considered.
- b. If there is reasonable agreement between the Tier 2 concentrations and the Tier 3 concentrations for the

compound, the Tier 2 concentration shall be selected as the chronic ambient air concentration (CAAC).

- c. If the Tier 2 concentration is not in reasonable agreement with the Tier 3 concentrations and one of the Tier 3 concentrations is based on more recent or relevant studies, that concentration shall be selected as the chronic ambient air concentration (CAAC). Otherwise, the Tier 2 concentration shall be selected.
- d. If the Tier 2 concentration is selected in accordance with Section 2(c) of this appendix, no further evaluation of Tier 3 concentrations is required.

d. Evaluation of Tier 3 Values:

1. Calculation of Concentrations:

- a. Minimal Risk Levels (MRLs) and Reference Exposure Levels (RELs) shall be multiplied by 1.04 to reflect an assumed exposure of 350 rather than 365 days per year.
- b. Unit Risk Factors (CalURFs) developed by the California Environmental Protection Agency shall be transformed into concentrations in milligrams per cubic meter (mg/m^3) by applying the following equation:

$$\text{TR} \times \text{ATc} / (\text{EF} \times \text{IFA adj} \times [\text{CalURF} \times \text{BW}/\text{IR}])$$

Where: TR = $1\text{E}-06$
ATc = 25,550 days
EF = 350 days/year
IFA adj = $11\text{m}^3\text{-year}/\text{kg}\text{-day}$
BW = 70 kg
IR = $20\text{ m}^3/\text{day}$

2. Selection of Concentration:

- a. If both a Minimal Risk Level (MRL) and a Reference Exposure Level (REL) exist for the compound, the most appropriate shall be selected after considering the relevance and timing of the studies on which the levels are based.
- b. If there is both a Unit Risk Factors (CalURFs) developed by the California Environmental Protection Agency-based concentration and a concentration based on a Minimal Risk Level (MRL) or a Reference Exposure

Level (REL) for the compound, the more stringent of the two shall be selected.

- e. **No Available Data:** If there is no data available in any of the sources identified in Section 2(a) of this appendix for the compound, the applicant must perform a Tier 4 risk management analysis (RMA) under Chapter 7 Article 2-Pinal County Hazardous Air Pollutants (HAPS) Program-§7-2-030.6-Risk Management Analysis (RMA) of these rules or forego the risk management analysis (RMA) option.

3. **ACUTE AMBIENT AIR CONCENTRATIONS:**

a. **Selection of Concentration:**

1. The first concentration identified by evaluating the following data sources in the order listed shall be adjusted, where required, and used as the acute ambient air concentration (AAAC) for the compound:
 - a. The level 2 four-hour average Acute Exposure Guideline Level developed by the EPA Office Of Prevention-Pesticides And Toxic Substances.
 - b. The level 2 Emergency Response Planning Guideline (ERPG) developed by the American Industrial Hygiene Association. The acute ambient air concentration (AAAC) shall be the Emergency Response Planning Guideline (ERPG) divided by two.
 - c. The level 2 Temporary Emergency Exposure Limit (TEEL) developed by the United States Department Of Energy's Emergency Management Advisory Committee's Subcommittee On Consequence Assessment And Protective Action. The acute ambient air concentration (AAAC) shall be the Temporary Emergency Exposure Limit (TEEL) divided by two.
2. **No Available Data:** If there is no data available in any of the sources identified in Section 3(a) of this appendix, the applicant must perform a Tier 4 risk management analysis (RMA) under Chapter 7 Article 2-Pinal County Hazardous Air Pollutants (HAPS) Program-§7-2-030.6-Risk Management Analysis (RMA) of these rules or forego the risk management analysis (RMA) option.