

STATE OF ARIZONA

COUNTY OF PIMA

Witness my hand and Official Seal.

I hereby certify that the within instrument was filed for record in Pima County, State of Arizona

IDA MAE SMYTH
County Recorder

PIMA

No. 63904

Book 5305

Page 23-40

Date: JUN 6 76-8 00 AM

Request of: CLERK BOARD OF SUPERVISORS

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ORDINANCE NO. 1976-54

AMENDING THE RULES AND REGULATIONS OF THE PIMA COUNTY AIR POLLUTION CONTROL DISTRICT BY AMENDING REGULATION I, RULE 2, REGULATION II, RULE 2, REGULATION II, RULE 7, REGULATION II, RULE 11, AND ADDING REGULATIONS VI, VII, AND VIII AND APPENDIX A AND B.

BE IT ORDAINED BY THE BOARD OF SUPERVISORS OF PIMA COUNTY, ARIZONA:

SECTION 1. That various rules and regulations contained in the

Rules and Regulations of the Pima County Air Pollution Control District

(as amended) are hereby amended by revising and adding the rules and

regulations contained herein for those contained in the rules and regulations

with all other rules and regulations to remain unchanged by these amendments

and to remain in full force and effect. The amendments are as follows:

REGULATION I, RULE 2 - DEFINITIONS

uu. Shutdown - the cessation of operation of any process,

fuel-burning or control equipment, or related operating equipment for any purpose.

vv. Startup - the setting in operation of any process, fuel-burning

or control equipment, or related operating equipment, to a point where the affected facility or process is operating in the planned or normal manner.

Startup may be a single smooth sequence of events, or alternatively, may

require several attempts and is not necessarily of predictable duration.

ww. Malfunction - any sudden and unavoidable failure of air pollution

control equipment or process equipment or of a process to operate in a

normal or usual manner. Failures that are caused entirely or in part by

poor maintenance, careless operation, or any other preventible equipment

breakdown shall not be considered malfunctions.

xx. Scheduled Maintenance - normal, intermittent operations of a

routine maintenance nature which are necessary to insure the operational

reliability of an installation.

yy. Ambient Air - that portion of the atmosphere, external to

buildings, to which the general public has access.

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1 REGULATION II, RULE 2

2 6. Particulate Emissions From Fuel Burning Equipment

3 1. This regulation applies to any installation in which fuel
4 is burned for the primary purpose of producing steam, hot water, hot air or
5 other liquids, gases or solids and in the course of doing so the products of
6 combustion do not come into direct contact with process materials. When any
7 products or by-products of a manufacturing process are burned for the same
8 purpose or in conjunction with any fuel, the same maximum emission limitations
9 shall apply.

10 2.t The heat content of solid fuel shall generally be determined
11 according to ASTM Method D-271, "Laboratory Sampling and Analysis of Coal
12 or Coke," and ASTM Method D-2015, "Gross Calorific Value of Solid Fuel by
13 the Adiabatic Bomb Calorimeter." These methods shall be used as guides,
14 but may be modified by the Control Officer to suit specific sampling
15 conditions or needs based upon good practice.

16 3. For purposes of this regulation, the heat input shall be
17 the aggregate heat content of all fuels whose products of combustion pass
18 through a stack or other outlet. The heat input value used shall be the
19 equipment manufacturer's or designer's guaranteed maximum input, whichever
20 is greater. The total heat input of all fuel-burning units on a plant or
21 premises shall be used for determining the maximum allowable amount of
22 particulate matter which may be emitted.t

23 4. No person shall cause, allow or permit the emission of
24 particulate matter, caused by combustion of fuel, from any fuel-burning
25 operation in excess of the amounts calculated by the equations presented
26 below:t

27 a.t For equipment having a heat input rate of 4200t
28 million BTU per hour or less, the maximum allowable emissions
29 shall be determined by the following equation:

$$E = 1.02Q^{0.769}$$

30 Where: E = the maximum allowable particulate emissions rate in
31 pounds-mass per hour.

Q = the heat input in million BTU per hour.

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b.t For equipment having a heat input rate greater than
4200 million BTU per hour, the maximum allowable
emissions shall be determined by the following
equation:

$$E = 17.0Q^{0.432t}$$

Where "E" and "Q" have the same meanings as in
subparagraph a above.t

c.t For reference purposes only, the two equations in
paragraph 4 are plotted in Figure 1. The emissio
values obtained from the graph are approximately
correct for the heat input rates shown. However,
the actual values shall be calculated from the applicab
equations and rounded off to two decimal places.t

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b. For equipment having a heat input rate greater than 4200 million BTU per hour, the maximum allowable emissions shall be determined by the following equation:

$$E = 17.0Q^{0.432}$$

Where "E" and "Q" have the same meanings as in subparagraph a above.

c. For reference purposes only, the two equations in paragraph 4 are plotted in Figure 1. The emission values obtained from the graph are approximately correct for the heat input rates shown. However, the actual values shall be calculated from the applicable equations and rounded off to two decimal places.

REGULATION II, RULE 7 - EMISSIONS LIMITATION, FUEL BURNING EQUIPMENT

A. Emission Limitation, Fuel Burning Equipment - Sulfur Dioxide

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1. This regulation applies to an installation operated for the purpose of producing electric energy with a resulting discharge of sulfur dioxide in the installation's effluent gases.

2. 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 low sulfur oil is fired.

3. Steam power generating installations which are existing sources shall not emit more than 2.2 pounds of sulfur dioxide, maximum two-hour average, per million BTU heat when high sulfur oil is fired.

4. Any permit issued for the operation of an existing source, or any renewal or modification of such a permit, shall include a condition prohibiting the use of high sulfur oil by the permittee, except that if the applicant demonstrates to the satisfaction of the Control Officer.

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- a. That sufficient quantities of low sulfur oil are not available for use by the source, and
- b. That he or she has adequate facilities and contingency plans to insure that the sulfur dioxide ambient air quality standards will not be violated. The terms of the permit may authorize the use of high sulfur oil under such conditions as are justified. In cases where the permittee is authorized to use high sulfur oil, he or she shall submit to the Control Officer monthly reports detailing efforts to obtain low sulfur oil. When the conditions justifying the use of high sulfur oil no longer exist, the permit shall be modified accordingly.

5. For purposes of this regulation low sulfur oil means fuel oil containing less than 0.90 percent of sulfur by weight, and high sulfur oil means fuel oil containing 0.90 percent or more of sulfur by weight.

6. 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.

B. Emission Limitation, Fuel Burning Equipment - Nitrogen Oxides

1. This regulation applies to an installation operated for the purpose of producing electric energy with a resulting discharge of nitrogen oxides in the installation effluent gases.

2. Steam power generating installation 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.

3. Steam power generating installations which are new sources

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B. Emission Limitation, Fuel Burning Equipment - Nitrogen Oxides

1. This regulation applies to an installation operated for the purpose of producing electric energy with a resulting discharge of nitrogen oxides in the installation effluent gases.

2. Steam power generating installation 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.

3. Steam power generating installations which are new sources

1 shall not emit more than 0.30 pounds of nitrogen oxides, maximum two-hour
2 average, calculated as nitrogen dioxide, per million BTU heat input when
3 liquid fossil fuel is fired.

4 4.t Steam power generating installations which are new sources
5 shall not emit more than 0.70 pounds of nitrogen oxides, maximum two-hour
6 average, calculated as nitrogen dioxide, per million BTU heat input when
7 solid fossil fuel is fired.

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21 REGULATION VII - STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES
22 A. The provisions of Part 60, Chapter 1, Title 40, Code of Federal
23 Regulations, as amended, are hereby adopted by reference and made a part
24 hereof as set forth in Appendix A attached hereto. The regulation shall be
25 known as Regulation VII of the rules and regulations of the Pima County
26 Air Pollution Control District. Any amendments to this part that are
27 promulgated by the U. S. Environmental Protection Agency after the effective
28 date of this rule shall be subject to review and adoption by the Pima County
29 Board of Supervisors prior to becoming part of this rule. For the purposes
30 of this rule, the word "Administrator" as used in Part 60, Chapter 1, Title
31 40, Code of Federal Regulations shall mean the Control Officer of the Pima
32 County Air Pollution Control District.

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Section 60.4 is hereby changed to read:

All applications, requests, submissions, reports under this part shall be submitted in triplicate and addressed to the Air Pollution Control Officer; Pima County Health Department, 151 West Congress, Tucson, Arizona, 85701; the Control Officer shall forward a copy of each to the Regional Administrator, U. S. Environmental Protection Agency, Region IX, 100 California Street, San Francisco, California, 94111.

B. Any violation of the provision of the rules and regulations described in Rule A above shall be considered a violation of the rules and regulations of the Pima County Air Pollution Control District.

C. Any owner or operator of planned new air polluting equipment or facilities which require reviews by the Control Officer under this regulation shall submit an application for an Installation Permit as described in Regulation I, Rules 4 and 5 of these regulations. In addition to the services normally required for the Installation Permit, the Control Officer shall conduct any necessary special studies, evaluations, and appraisals required by the applicable Federal Regulations herein adopted by reference. The Control Officer shall not issue the Installation Permit until the review process, which includes the special studies, evaluations, and appraisals, has been completed and the provisions of the applicable adopted regulations have been met.

D.a In addition to the fee for the Installation Permits as described in Regulation I, Rules 4, 5, 29, and 30 of these regulations, the owner or operator shall pay an additional reasonable fee for the special studies, evaluations, and appraisals required by the applicable adopted regulations; such additional fee shall not exceed the equivalent cost of the Installation Permit as described in Rules 29 and 30, or the actual cost of services provided by the Control Officer, whichever is smaller. Upon request by the owner or operator of the applicant of an Installation Permit required by this regulation, the Control Officer shall furnish to the owner or operator an itemized list of actual costs upon which the additional fee was based.

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REGULATION VIII - EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS

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3 A. The provisions of Part 61, Chapter 1, Title 40, Code of
4 Federal Regulations, as amended, are hereby adopted by reference and made
5 a part hereof as set forth in Appendix B attached hereto. The regulation
6 shall be known as Regulation VIII of the Rules and Regulations of the Pima
7 County Air Pollution Control District. Any amendments to this part that
8 are promulgated by the U. S. Environmental Protection Agency after the
9 effective date of this rule shall be subject to review and adoption by the
10 Pima County Board of Supervisors prior to becoming a part of this rule.
11 For the purposes of this rule the word "Administrator" as used in Part 61,
12 Chapter 1, Title 40, Code of Federal Regulations shall mean the Control
13 Officer of the Pima County Air Quality Control District.

14 Section 61.4 is hereby changed to read:

15 All requests, reports, applications, submittals, and other
16 communications to the Control Officer pursuant to this part shall
17 be submitted in duplicate and addressed to the Air Pollution
18 Control Officer, Pima County Health Department, 151 West Congress
19 Street, Tucson, Arizona, 85701; the Control Officer shall forward
20 a copy of each to the Regional Administrator, U. S. Environmental
21 Protection Agency, Region IX, 100 California Street, San Francisco,
22 California, 94111.

23 B. Any violation of the provisions of the rules and regulations
24 described in Rule A shall be considered a violation of the Rules and Regulations
25 of the Pima County Air Pollution Control District.

26 C. Any owner or operator who plans to install, erect, or construct
27 equipment or facilities which will pollute or has the potential for polluting
28 the atmosphere with Hazardous Air Pollutants as described in the Federal
29 regulations adopted by reference herein shall first obtain an Installation
30 Permit in the manner described in Regulation I, Rule 4 and 5 of those
31 regulations. Before issuing the Installation Permit, in addition to the
32 normal services provided by the Control Officer as described in Regulation I,
33 Rule 4, the Control Officer shall perform any special studies, evaluations,

- 1 or appraisals necessary for assuring that the planned equipment or
- 2 facilities will conform and comply with the adopted regulations.