



Air Pollution Control Board
Greg Cox District 1
Dianne Jacob District 2
Pam Slater District 3
Ron Roberts District 4
Bill Horn District 5

Air Pollution Control Officer
R. J. Sommerville

DATE: January 22, 1997
TO: Air Pollution Control Board
SUBJECT: Adoption of Amendments to Rules 52 (Particulate Matter), 53 (Specific Air Contaminants), and 54 (Dust and Fumes)

SUMMARY:

On July 30, 1996 (APCB Item #4), the Air Pollution Control Board approved the Sunset Commission's recommendations to revise Rules 52, 53, and 54. Rule 52 specifies the maximum concentration of particulate matter allowable from emission sources not subject to Rules 53 or 54. Rule 53 limits sulfur compound and particulate matter emissions related to combustion activities. Rule 54 limits particulate emissions from industrial processes in relation to the weight of material processed.

Rule 52 amendments apply the uncorrected particulate concentration (grain loading) standard contained in the rule to all sources subject to Rule 54. They also exempt asphalt plants from the amendments until July 1, 1998, if such plants meet the requirements of Rule 54; exempt equipment not required to obtain an Authority to Construct, Permit to Operate or Registration from the District; and exempt stationary internal combustion engines from the rule.

Rule 53 amendments add an exemption for equipment subject to Rule 54; add an exemption for equipment having a 10 million British Thermal Units (BTU) per hour or less heat input and operating on liquid fuel; add an exemption for equipment having a 50 million BTU per hour or less heat input and operating on gaseous fuel. They also delete the term "dispose of combustible refuse" and replace it with "reduce combustible material"; add a definition for "Combustible Matter"; add an exemption for equipment not required to obtain an Authority to Construct, Permit to Operate or Registration from the District; and make minor clarifications.

Rule 54 amendments revise the process weight table in the rule to delete emission limits less than 1.0 pounds per hour. They also exempt equipment not required to obtain an Authority to Construct, Permit to Operate or Registration from the District and make other minor clarifications.

A draft Negative Declaration has been prepared pursuant to the California Environmental Quality Act. It has been determined that potential emissions increase will not result in a significant impact on the environment.

A workshop was held on October 16, 1996. The workshop report is attached.

Issue

Should the Board adopt amendments to Rules 52, 53, and 54 to implement a Sunset Review Commission recommendation?

SUBJECT: Adoption of Amendments to Rules 52, 53, and 54

Recommendation

AIR POLLUTION CONTROL OFFICER:

- (1) Adopt the resolution amending Rules 52, 53, and 54 of the District Rules and Regulations and make appropriate findings:
 - (i) of necessity, authority, clarity, consistency, non-duplication and reference as required by Section 40727 of the State Health and Safety Code;
 - (ii) that adopting the amendments to Rules 52, 53, and 54 will alleviate a problem and will not interfere with attainment of ambient air quality standards (Section 40001 of the State Health and Safety Code);
 - (iii) that an assessment of the socioeconomic impact of the proposed amendments is not required by Section 40728.5 of the State Health and Safety Code because the proposed amendments do not interfere with the District's adopted plan to attain the ambient air quality standards and do not result in any significant increase in emissions;
 - (iv) that a proposed Negative Declaration was prepared pursuant to the California Environmental Quality Act and that public notice and a public review period were provided for the proposed Negative Declaration; that no comments were received during said public review period; and that considering the initial study and proposed Negative Declaration and the entire record before the Board, a finding be made by the Board in the exercise of its independent judgement that the proposed amendments to Rules 52, 53, and 54 will not have a significant effect on the environment, and that an Environmental Impact Report need not be prepared.
 - (v) that there is no evidence in the record as a whole that the proposed amendments to Rules 52, 53, and 54 will have an adverse effect on wildlife resources, and on the basis of substantial evidence, the presumption of adverse effect in California Code of Regulations, Title 14, Section 753.5(c) has been rebutted.
- (2) Approve the Certificate of Fee Exemption for DeMinimis Impact Finding exempting the District from payment of fees to the California Department of Fish and Game.

Alternative

There is no practical alternative implementing recommendations of the Sunset Commission.

Advisory Statement

The Air Pollution Control District Advisory Committee recommended adopting the proposed amendments to Rules 52, 53, and 54 at its December 2, 1996, meeting.

Fiscal Impact

Adopting the proposed rule will have no fiscal impact on the District.

SUBJECT: Adoption of Amendments to Rules 52, 53, and 54

Additional Information

Attachment I contains additional background information, information on compliance with Board policy on adopting new rules, additional information on Socioeconomic Impact Assessment requirements, and information on compliance with the California Environmental Quality Act.

Attachment II contains the Resolution for Rules 52, 53, and 54.

Attachment III contains the report for the workshop held on October 16, 1996.

Attachment IV contains the Initial Study and Negative Declaration for the rule amendments necessary to comply with the requirements of the California Environmental Quality Act.

Concurrence:

Respectfully submitted,

LAWRENCE B. PRIOR III
Chief Administrative Officer

BY: ROBERT R. COPPER
Deputy Chief Administrative Officer



R. J. SOMMERVILLE
Air Pollution Control Officer

SUBJECT: Adoption of Amendments to Rules 52, 53, and 54

W 12/18/96

COUNTY COUNSEL APPROVAL: Form and Legality Yes N/A
 Standard Form Ordinance Resolution

CHIEF FINANCIAL OFFICER/AUDITOR REVIEW: Yes N/A
4 VOTES: Yes No

CONTRACT REVIEW PANEL: Approved _____ N/A

PREVIOUS RELEVANT BOARD ACTION: July 30, 1996 (APCB Item #4)

BOARD POLICIES APPLICABLE: N/A

CONCURRENCES: N/A

ORIGINATING DEPARTMENT: County of San Diego Air Pollution Control District

CONTACT PERSON: Richard Smith, Deputy Director (S50) 694-3303 MS: 0-176



R. J. SOMMERVILLE, APCO
DEPARTMENT AUTHORIZED REPRESENTATIVE

JANUARY 22, 1997
MEETING DATE

ATTACHMENT I

ADOPTION OF AMENDMENTS TO RULES 52 (PARTICULATE MATTER), 53 (SPECIFIC AIR CONTAMINANTS), AND 54 (DUST AND FUMES)

Additional Background Information

On July 30, 1996, the Air Pollution Control Board approved recommendations of the County of San Diego Economic Advisory Board's Sunset Review Commission initiated by the Air Pollution Control Review Committee and directed the District to implement the recommendations. On November 13, 1996, the Board approved the District's implementation plan scheduling these rules for amendment in January 1997.

The Sunset Commission recommended that:

- The uncorrected grain loading standard in Rule 52 be applied to all Rule 54 sources.
- Rule 53 not be applied to sources subject to Rule 54.
- A 10 million British Thermal Units (BTU) per hour heat input threshold be established before Rule 53 applies to sources using liquid fuel.
- A 50 million BTU per hour heat input threshold be established before Rule 53 applies to sources using exclusively gaseous fuel.
- A minimum emissions rate of 1.0 pounds per hour be allowed for any source subject to Rule 54 with a process weight of less than 250 pounds per hour.
- Rules 52, 53, and 54 apply only to sources required to have a District Permit to Operate, and be clarified to apply to combustible refuse, human remains, and animal remains" so human remains are not denominated as a subset of "combustible refuse."

In response to these recommendations, the District met with a representative of affected businesses and developed proposed changes. A public workshop was held on October 16, 1996. The workshop report is Attachment III. These resulting changes accomplish the following:

Rule 52

The uncorrected grain loading standard in Rule 52 would now be applied to all sources subject to Rule 54. Also, sources subject to Rule 52 would be exempted from complying with Rule 53. This will result in the very stringent combustion limits for particulate matter contained in Rule 53 no longer being applied to processes where nearly all particulate matter emissions result from the non-combustion portion of the process. The emission limits of Rule 52 are more practical for these types of processes. Asphalt plants in operation on the date the amendments are adopted would have until July 1, 1998, to comply with the rule requirements if these plants meet the requirements of Rule 54 in the interim. All but two asphalt plants currently meet the requirements of Rule 52. The July 1, 1998, compliance date will allow these plants the time needed to install control equipment.

Rule 53

An exemption would be added for equipment subject to Rule 54 because this equipment will now more appropriately be regulated by Rule 52. An exemption level of 10 million BTU per hour or less heat input would be added for equipment operating on liquid fuel and an exemption level of 50

SUBJECT: Adoption of Amendments to Rules 52, 53, and 54

million BTU per hour or less heat input would be added for equipment operating on gaseous fuel because particulate matter emissions are insignificant. The term "dispose of combustible refuse" would be deleted and replaced with "reduce combustible material" to relieve sensitivities related to processing human remains. A definition for "Combustible Matter" would be added and other minor clarifications made.

Rule 54

The process weight table in Rule 54 would be revised to delete emission limitations less than 1.0 pounds per hour. Efforts to regulate below this emissions level impose control equipment costs disproportionate to the relatively insignificant emissions that would be controlled. Other minor clarifications would be made.

Rules 52, 53, and 54

Equipment not required to obtain an Authority to Construct, Permit to Operate or Registration from the District would be exempted from the requirements of Rules 52, 53, and 54 because emissions of particulate matter from this equipment are insignificant. Requiring continued compliance would mean this equipment must be tested and pay associated costs to determine compliance.

The proposed changes to Rule 52 will result in a decrease in emissions of particulate matter equal to or smaller than 10 microns (PM10) while the proposed changes to Rules 53 and 54 will result in an increase in PM10 emissions. The net result of these amendments to Rules 52, 53, and 54 will be an estimated decrease in PM10 emissions of about 51 tons/yr.

Compliance With Board Policy on Adopting New Rules

On February 2, 1993, the Board directed that, with the exception of a regulation requested by business or a regulation for which a socioeconomic impact assessment is not required, no new or revised regulation shall be implemented unless specifically required by federal or state law. The proposed changes to Rules 52, 53, and 54 are consistent with this Board directive because they have been requested by local businesses.

Socioeconomic Impact Assessment

Section 40728.5 of the State Health and Safety Code requires the District to perform a socioeconomic impact assessment for new and revised rules and regulations significantly affecting air quality or emission limitations. New and revised rules and regulations that result in less restrictive emissions limits are exempt from this requirement if the action does not interfere with the District's adopted plan to attain the ambient air quality standards and does not result in any significant increase in emissions. Because the proposed amendments will result in less restrictive emissions limits but not in a significant increase in emissions, and do not interfere with the District's adopted plan to attain the ambient air quality standards, a socioeconomic impact assessment has not been done.

California Environmental Quality Act

The California Environmental Quality Act requires an environmental review for certain actions. An environmental review consistent with the California Environmental Quality Act has been performed because excess emissions are associated with the proposed changes to Rules 53 and 54 and emissions decreases are associated with the proposed changes to Rule 52. However, the overall result of this project (amending Rules 52, 53, and 54) will be a net decrease (51 tons/year) in PM10

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emissions. An Initial Study conducted by the District concluded that there will not be a significant effect on the environment, and a draft Negative Declaration was prepared pursuant to the California Environmental Quality Act. There is no substantial evidence that any aspect of the proposed changes may result in a significant adverse effect upon the environment.

No comments were received during the comment review period.

Based on the entire record and including the information contained in the Initial Study, there is also no evidence that the proposed amendments to Rules 52, 53, and 54 may have any potential adverse effect on wildlife resources or the habitat upon which upon which wildlife depends. On the basis of substantial evidence, the District has rebutted the presumption of adverse effect in California Code of Regulations, Title 14, Section 753.5(c).

Re Rules and Regulations of the)
Air Pollution Control District)
of San Diego County)

Resolution No. 97-32

Wednesday, January 22, 1997

**RESOLUTION AMENDING RULE 52 (PARTICULATE MATTER),
RULE 53 (SPECIFIC AIR CONTAMINANTS), AND
RULE 54 (DUST AND FUMES)
OF REGULATION IV
OF THE RULES AND REGULATIONS OF THE
SAN DIEGO COUNTY AIR POLLUTION CONTROL DISTRICT**

On motion of Member COX, seconded by Member SLATER the following resolution is adopted:

WHEREAS, the San Diego County Air Pollution Control Board, pursuant to Section 40702 of the Health and Safety Code, adopted Rules and Regulations of the Air Pollution Control District of San Diego County; and

WHEREAS, said Board now desires to amend said Rules and Regulations; and

WHEREAS, notice has been given and a public hearing has been had relating to the amendment of said Rules and Regulations pursuant to Section 40725 of the Health and Safety Code.

NOW THEREFORE IT IS RESOLVED AND ORDERED by the San Diego County Air Pollution Control Board that the Rules and Regulations of the Air Pollution Control District of San Diego County be and hereby are amended as follows:

1. Proposed amendments to Rule 52 are to read as follows:

RULE 52. PARTICULATE MATTER

(a) APPLICABILITY

Except as provided in Section (b), the provisions of this rule are applicable to all sources of particulate matter discharged into the atmosphere.

This rule shall not be applicable to any asphalt plant in operation in San Diego County on or before (*date of adoption*) until July 1, 1998, provided such plant is in compliance with Rule 54.

In those instances where Rule 53 is applicable the requirements of this rule shall not apply.

Except as provided in Section (b) the provisions of this rule shall only apply to equipment that is required to obtain an Authority to Construct, Permit to Operate or Registration in accordance with these Rules and Regulations.

(b) EXEMPTIONS

The provisions of this rule shall not apply to stationary internal combustion engines.

(c) **RESERVED**

(d) **STANDARD**

A person shall not discharge into the atmosphere from any source particulate matter in excess of 0.10 grain per dry standard cubic foot (0.23 grams per dry standard cubic meter) of gas.

2. Proposed amendments to Rule 53 are to read as follows:

RULE 53. SPECIFIC AIR CONTAMINANTS

(a) **APPLICABILITY**

This rule is applicable to the following:

(1) Sulfur recovery plants and others sources of gaseous sulfur emissions where the sulfur compounds emitted are not products of fuel combustion.

(2) Except as provided for in Section (b) of this rule, all sources of particulate matter discharged into the atmosphere from the burning of any kind of material containing carbon in a free or combined state.

(3) Except as provided in Section (b) the provisions of this rule shall only apply to equipment that is required to obtain an Authority to Construct, Permit to Operate or Registration in accordance with these Rules and Regulations.

(b) **EXEMPTIONS**

(1) The provisions of Subsection (d)(2) of this rule shall not apply to stationary liquid fueled piston-type internal combustion engines.

(2) In those instances where Rule 54 is applicable, the requirements of Subsections (d)(2) and (d)(3) of this rule shall not apply.

(3) The provisions of this rule shall not apply to natural gas, liquefied petroleum gas or propane gas fired boilers with a maximum heat input rating of 50 million Btu per hour or less.

(4) The provisions of this rule shall not apply to liquid fuel fired boilers with a maximum heat input rating of 10 million Btu per hour or less.

(c) **DEFINITIONS**

(1) "**Combustible Material**" means any solid or liquid combustible waste material or combustible material, containing carbon in a free or combined state.

(d) **STANDARDS**

A person shall not discharge into the atmosphere from any single source of emission whatsoever any one or more of the following contaminants, in any state or combination thereof, exceeding in concentration at the point of discharge:

(1) Sulfur compounds calculated as sulfur dioxide (SO₂): 0.05 percent, by volume, on a dry basis.

(2) Combustion particulates: except as provided in Subsections (d)(3) and (d)(4) of this rule, 0.10 grains per dry standard cubic foot (0.23 grams per dry standard cubic meter) of gas which is standardized to 12 percent of carbon dioxide (CO₂) by volume. In measuring the combustion particulates from incinerators used to reduce combustible material by burning, the carbon dioxide (CO₂) produced by combustion of any liquid or gaseous fuels shall be excluded from the adjustment to 12 percent of carbon dioxide (CO₂) by volume.

(3) Combustion particulates from incinerators with a rated capacity of 100 pounds per hour or less: 0.30 grains per dry standard cubic foot (0.69 grams per dry standard cubic meter) of gas which is standardized to 12 percent of carbon dioxide (CO₂) by volume. In measuring the combustion particulates from incinerators used to reduce combustible material by burning, the carbon dioxide (CO₂) produced by combustion of any liquid or gaseous fuels shall be excluded from the adjustment to 12 percent of carbon dioxide (CO₂) by volume.

(4) Combustion particulates from the testing of jet engines in test cells: 0.07 grains per dry standard cubic foot (0.16 grams per dry standard cubic meter) of gas standardized to 1 percent of carbon dioxide (CO₂).

3. Proposed amendments to Rule 54 are to read as follows:

RULE 54. DUST AND FUMES

(a) APPLICABILITY

Except as provided in section (b), the provisions of this rule are applicable to:

(1) Any operation that is comprised of one or more processes as defined in this Rule. This includes operations where solid fuels are introduced.

(2) Only equipment that is required to obtain an Authority to Construct, Permit to Operate or Registration in accordance with these Rules and Regulations.

(b) EXEMPTIONS

The provisions of this rule shall not apply to operations comprised exclusively of a combustion process where liquid fuels, gaseous fuels and corresponding combustion air are introduced.

(c) DEFINITIONS

(1) "Process" means any method, reaction, or operation wherein materials are handled or whereby materials undergo physical change (i.e., the size, shape, appearance, temperature, state or other physical property of the materials is altered) or chemical change (i.e., a substance or substances with different chemical composition or properties are formed or created). A process includes all the equipment and facilities necessary for

the handling of materials or the completion of the transformation of the materials to produce a physical or chemical change. There may be several processes in series or in parallel necessary to the manufacture of a product.

(2) **"Process Line"** means one or more pieces of equipment linked by the process flow and producing a product or performing a service such that the product cannot be produced or the service cannot be performed if any piece of equipment is removed or not functioning.

(3) **"Process Weight"** means the total weight of all materials introduced into any specific process which process may cause any discharge of air contaminants into the atmosphere. Solid fuels introduced will be considered as part of the process weight, but liquid and gaseous fuels and combustion air will not.

(4) **"Process Weight Per Hour"** means the value derived by dividing the total process weight by the number of hours in one complete operation from the beginning of any given process to the completion thereof, excluding any time during which the equipment is idle.

(d) **STANDARDS**

A person shall not discharge in any one hour into the atmosphere from any source dust or fumes, including lead and lead compounds, in excess of the amounts shown in the following table.

To use the following table, take the process weight per hour as defined above. This figure is then found on the table, opposite which is the maximum number of pounds of contaminants which may be discharged into the atmosphere in any one hour. As an example, if A is a process which emits contaminants into the atmosphere and which process takes 3 hours to complete, the weight of all materials in the specific process, in this example 1,500 lbs., is divided by 3, giving a process weight per hour of 500 lbs. The table shows that A may not discharge more than 1.77 lbs. in any one hour during the process. Where the process weight per hour falls between figures in the left hand column, the exact weight of permitted discharge may be interpolated. To convert from pounds to grams, multiply pounds by 454; to convert from pounds to kilograms, multiply pounds by 0.454.

TABLE
(RULE 54)

<u>Process</u> <u>Wt/Hr (lbs)</u>	<u>Maximum Weight</u> <u>Disch/Hr (lbs)</u>	<u>Process</u> <u>Wt/Hr (lbs)</u>	<u>Maximum Weight</u> <u>Disch/Hr (lbs)</u>
50	1.00	3500	5.52
100	1.00	3600	5.61
150	1.00	3700	5.69
200	1.00	3800	5.77
250	1.03	3900	5.85
300	1.20	4000	5.93
350	1.35	4100	6.01
400	1.50	4200	6.08
450	1.63	4300	6.15
500	1.77	4400	6.22
550	1.89	4500	6.30
600	2.01	4600	6.37
650	2.12	4700	6.45
700	2.24	4800	6.52
750	2.34	4900	6.60
800	2.43	5000	6.67
850	2.53	5500	7.03
900	2.62	6000	7.37
950	2.72	6500	7.71
1000	2.80	7000	8.05
1100	2.97	7500	8.39
1200	3.12	8000	8.71
1300	3.26	8500	9.03
1400	3.40	9000	9.36
1500	3.54	9500	9.67
1600	3.66	10000	10.00
1700	3.79	11000	10.63
1800	3.91	12000	11.28
1900	4.03	13000	11.89
2000	4.14	14000	12.50
2100	4.24	15000	13.13
2200	4.34	16000	13.74
2300	4.44	17000	14.36
2400	4.55	18000	14.97
2500	4.64	19000	15.58
2600	4.74	20000	16.19
2700	4.84	30000	22.22
2800	4.92	40000	28.30
2900	5.02	50000	34.30
3000	5.10	60000	40.00
3100	5.18		
3200	5.27	or	
3300	5.36	more	
3400	5.44		

IT IS FURTHER RESOLVED AND ORDERED that the subject amendments to Rules 52, 53 and 54 of Regulation IV shall take effect upon adoption.

PASSED AND ADOPTED by the Air Pollution Control Board of the San Diego County Air Pollution Control District, State of California, this 22nd day of January, 1997 by the following votes:

AYES: COX, JACOB, SLATER, HORN
NOES: NONE
ABSENT: ROBERTS

APPROVED AS TO FORM AND LEGALITY
COUNTY COUNSEL

BY W. Ottou
DEPUTY

STATE OF CALIFORNIA)
COUNTY OF SAN DIEGO) ^{SS}

I hereby certify that the foregoing is a full, true, and correct copy of the Original Resolution which is now on file in my office.

THOMAS J. PASTUSZKA
Clerk of the Board of Supervisors

By M Steele
Maritza C. Steele, Deputy

Resolution No. 97-32
1/22/97 (APCB-1)
Rules 52, 53 & 54

CHANGE COPY

Re Rules and Regulations of the)
Air Pollution Control District)
of San Diego County)

**RESOLUTION AMENDING RULE 52 (PARTICULATE MATTER),
RULE 53 (SPECIFIC AIR CONTAMINANTS), AND
RULE 54 (DUST AND FUMES)
OF REGULATION IV
OF THE RULES AND REGULATIONS OF THE
SAN DIEGO COUNTY AIR POLLUTION CONTROL DISTRICT**

On motion of Member _____, seconded by Member _____ the following resolution is adopted:

WHEREAS, the San Diego County Air Pollution Control Board, pursuant to Section 40702 of the Health and Safety Code, adopted Rules and Regulations of the Air Pollution Control District of San Diego County; and

WHEREAS, said Board now desires to amend said Rules and Regulations; and

WHEREAS, notice has been given and a public hearing has been had relating to the amendment of said Rules and Regulations pursuant to Section 40725 of the Health and Safety Code.

NOW THEREFORE IT IS RESOLVED AND ORDERED by the San Diego County Air Pollution Control Board that the Rules and Regulations of the Air Pollution Control District of San Diego County be and hereby are amended as follows:

- 1. Proposed amendments to Rule 52 are to read as follows:

RULE 52. PARTICULATE MATTER

(a) APPLICABILITY

Except as provided in Section (b), the provisions of this rule are applicable to all sources of particulate matter discharged into the atmosphere.

This rule shall not be applicable to any asphalt plant in operation in San Diego County on or before (date of adoption) until July 1, 1998, provided such plant is in compliance with Rule 54.

(1) In those instances where Rule 53 ~~or~~ 54 is applicable the requirements of this rule shall not apply.

(2) ~~The provisions of this rule shall not apply to stationary internal combustion engines.~~

Except as provided in Section (b) the provisions of this rule shall only apply to equipment that is required to obtain an Authority to Construct, Permit to Operate or Registration in accordance with these Rules and Regulations.

(b) **EXEMPTIONS**

The provisions of this rule shall not apply to stationary internal combustion engines.

(c) **RESERVED**

(b)(d) **STANDARD**

A person shall not discharge into the atmosphere from any source particulate matter in excess of ~~0.1~~ 0.10 grain per dry standard cubic foot (~~0.231~~ 0.23 grams per dry standard cubic meter) of gas.

2. Proposed amendments to Rule 53 are to read as follows:

RULE 53. SPECIFIC AIR CONTAMINANTS

(a) **APPLICABILITY**

This rule is applicable to the following:

(1) Sulfur recovery plants and others sources of gaseous sulfur emissions where the sulfur compounds emitted are not products of fuel combustion.

(2) Except as provided for in Section (b) of this rule, all sources of particulate matter discharged into the atmosphere from the burning of any kind of material containing carbon in a free or combined state.

(3) Except as provided in Section (b) the provisions of this rule shall only apply to equipment that is required to obtain an Authority to Construct, Permit to Operate or Registration in accordance with these Rules and Regulations.

(b) **EXEMPTIONS**

(1) The provisions of Subsection (d)(2) of this rule shall not apply to stationary liquid fueled piston-type internal combustion engines.

(2) In those instances where Rule 54 is applicable, the requirements of Subsections (d)(2) and (d)(3) of this rule shall not apply.

(3) The provisions of this rule shall not apply to natural gas, liquefied petroleum gas or propane gas fired boilers with a maximum heat input rating of 50 million Btu per hour or less.

(4) The provisions of this rule shall not apply to liquid fuel fired boilers with a maximum heat input rating of 10 million Btu per hour or less.

(c) **DEFINITIONS**

(1) "Combustible Material" means any solid or liquid combustible waste material or combustible material, containing carbon in a free or combined state.

(e)(d) **STANDARDS**

A person shall not discharge into the atmosphere from any single source of emission whatsoever any one or more of the following contaminants, in any state or combination thereof, exceeding in concentration at the point of discharge:

(1) Sulfur compounds calculated as sulfur dioxide (SO₂): 0.05 percent, by volume, on a dry basis, by dry volume.

(2) Combustion particulates: except as provided in Subsections (d)(3) and (d)(4) of this rule, ~~0.1~~ 0.10 grains per dry standard cubic foot (~~0.231~~ 0.23 grams per dry standard cubic meter) of gas which is standardized to 12 percent of carbon dioxide (CO₂) by volume. In measuring the combustion particulates from incinerators used to reduce dispose of combustible material refuse by burning, the carbon dioxide (CO₂) produced by combustion of any liquid or gaseous fuels shall be excluded from the adjustment to 12 percent of carbon dioxide (CO₂) by volume.

(3) Combustion particulates from incinerators with a rated capacity of 100 pounds per hour or less: ~~0.3~~ 0.30 grains per dry standard cubic foot (~~0.694~~ 0.69 grams per dry standard cubic meter) of gas which is standardized to 12 percent of carbon dioxide (CO₂) by volume. In measuring the combustion particulates from incinerators used to reduce dispose of combustible material refuse by burning, the carbon dioxide (CO₂) produced by combustion of any liquid or gaseous fuels shall be excluded from the adjustment to 12 percent of carbon dioxide (CO₂) by volume.

(4) Combustion particulates from the testing of jet engines in test cells: 0.07 grains per dry standard cubic foot (0.16 grams per dry standard cubic meter) of gas standardized to 1 percent of carbon dioxide (CO₂).

3. Proposed amendments to Rule 54 are to read as follows:

RULE 54. DUST AND FUMES

(a) APPLICABILITY

Except as provided in section (b), the provisions of this rule are applicable to:

(1) Any operation that is comprised of one or more processes as defined in this Rule. This includes operations where solid fuels are introduced.

(2) Only equipment that is required to obtain an Authority to Construct, Permit to Operate or Registration in accordance with these Rules and Regulations.

(b) EXEMPTIONS

The provisions of this rule shall not apply to operations comprised exclusively of a combustion process where liquid fuels, gaseous fuels and corresponding combustion air are introduced.

(c) **DEFINITIONS**

(1) **"Process"** means any method, reaction, or operation wherein materials are handled or whereby materials undergo physical change (i.e., the size, shape, appearance, temperature, state or other physical property of the materials is altered) or chemical change (i.e., a substance or substances with different chemical composition or properties are formed or created). A process includes all the equipment and facilities necessary for the handling of materials or the completion of the transformation of the materials to produce a physical or chemical change. There may be several processes in series or in parallel necessary to the manufacture of a product.

(2) **"Process Line"** means one or more pieces of equipment linked by the process flow and producing a product or performing a service such that the product cannot be produced or the service cannot be performed if any piece of equipment is removed or not functioning.

(3) **"Process Weight"** means the total weight of all materials introduced into any specific process which process may cause any discharge of air contaminants into the atmosphere. Solid fuels introduced will be considered as part of the process weight, but liquid and gaseous fuels and combustion air will not.

(4) **"Process Weight Per Hour"** means the value derived by dividing the total process weight by the number of hours in one complete operation from the beginning of any given process to the completion thereof, excluding any time during which the equipment is idle.

(e)(d) **STANDARDS**

A person shall not discharge in any one hour into the atmosphere from any source whatever dust or fumes, including lead and lead compounds, in excess of the amounts shown in the following table.

To use the following table, take the process weight per hour as such is defined above, in Rule 2(1). Then find this. This figure is then found on the table, opposite which is the maximum number of pounds of contaminants which may be discharged into the atmosphere in any one hour. As an example, if A is has a process which emits contaminants into the atmosphere and which process takes 3 hours to complete, he will divide the weight of all materials in the specific process, in this example 1,500 lbs., is divided by 3, giving a process weight per hour of 500 lbs. The table shows that A may not discharge more than 1.77 lbs. in any one hour during the process. Where the process weight per hour falls between figures in the left hand column, the exact weight of permitted discharge may be interpolated. To convert from pounds to grams, multiply pounds by 454; to convert from pounds to kilograms, multiply pounds by 0.454.

TABLE
(RULE 54)

<u>Process</u> <u>Wt/Hr (lbs)</u>	<u>Maximum Weight</u> <u>Disch/Hr (lbs)</u>	<u>Process</u> <u>Wt/Hr (lbs)</u>	<u>Maximum Weight</u> <u>Disch/Hr (lbs)</u>
50	1.00.24	3500	5.52
100	1.00.46	3600	5.61
150	1.00.66	3700	5.69
200	1.00.85	3800	5.77
250	1.03	3900	5.85
300	1.20	4000	5.93
350	1.35	4100	6.01
400	1.50	4200	6.08
450	1.63	4300	6.15
500	1.77	4400	6.22
550	1.89	4500	6.30
600	2.01	4600	6.37
650	2.12	4700	6.45
700	2.24	4800	6.52
750	2.34	4900	6.60
800	2.43	5000	6.67
850	2.53	5500	7.03
900	2.62	6000	7.37
950	2.72	6500	7.71
1000	2.80	7000	8.05
1100	2.97	7500	8.39
1200	3.12	8000	8.71
1300	3.26	8500	9.03
1400	3.40	9000	9.36
1500	3.54	9500	9.67
1600	3.66	10000	10.00
1700	3.79	11000	10.63
1800	3.91	12000	11.28
1900	4.03	13000	11.89
2000	4.14	14000	12.50
2100	4.24	15000	13.13
2200	4.34	16000	13.74
2300	4.44	17000	14.36
2400	4.55	18000	14.97
2500	4.64	19000	15.58
2600	4.74	20000	16.19
2700	4.84	30000	22.22
2800	4.92	40000	28.30
2900	5.02	50000	34.30
3000	5.10	60000	40.00
3100	5.18		
3200	5.27	or	
3300	5.36	more	
3400	5.44		

IT IS FURTHER RESOLVED AND ORDERED that the subject amendments to Rules 52, 53 and 54 of Regulation IV shall take effect upon adoption.

PASSED AND ADOPTED by the Air Pollution Control Board of the San Diego County Air Pollution Control District, State of California, this _____ day of _____, 1997 by the following votes:

AYES:
NOES:
ABSENT:

AIR POLLUTION CONTROL DISTRICT
COUNTY OF SAN DIEGO

WORKSHOP REPORT

AMENDMENTS TO RULES 52, 53 AND 54

A workshop notice was mailed to all businesses and government operations in San Diego county that will be affected by the proposed amendments to Rules 52, 53, and 54. In addition, notices were mailed to all local Chambers of Commerce, all local Economic Development Corporations, the U.S. Environmental Protection Agency (EPA), the California Air Resources Board (ARB), and other interested parties.

The workshop was held on October 16, 1996, and was attended by 13 people. The workshop comments and District responses are as follows:

1. WORKSHOP COMMENT

The date of January 1998 for two asphalt batch plants to be in full compliance with Rule 52 is no longer appropriate because of the time that has passed since this date was originally established. These plants will have difficulty completing control equipment modifications by that date.

DISTRICT RESPONSE

After further discussion, the final compliance date for asphalt plants has been revised to July 1, 1998. There is agreement this will allow adequate time for the necessary modifications to be made.

2. WORKSHOP COMMENT

The language in the definition of "Combustible Refuse or Combustible Material" needs further revision to be consistent with the recommendations of the Sunset Commission.

DISTRICT RESPONSE

The District agrees. This definition has been revised to include only the term "Combustible Material". The term "Combustible Refuse" has been deleted.

3. WORKSHOP COMMENT

Will the 10 mm Btu/hr exemption for liquid fuels result in new testing requirements, especially for equipment with liquid fuel backup.

DISTRICT RESPONSE

This change will not result in any changes to existing testing requirements or policies.

4. WORKSHOP COMMENT

Paragraph (b) of Rule 54 would unintentionally exempt all asphalt batch plants from this rule.

DISTRICT RESPONSE

The intent of this language was to clarify the applicability of the rule. To further clarify this intent, the language has been modified to state that this exemption applies only to equipment that is used exclusively for combustion.

**Air Pollution Control Board**

Greg Cox	District 1
Dianne Jacob	District 2
Pam Slater	District 3
Ron Roberts	District 4
Bill Horn	District 5

Air Pollution Control Officer

R. J. Sommerville

NEGATIVE DECLARATION

1. Project Name:

Adoption of amendments to existing Rule 52, Particulate Matter, Rule 53, Specific Air Contaminants, and Rule 54, Dust and Fumes, in the San Diego County Air Pollution Control District Rules & Regulations.

2. Project Applicant:

San Diego County Air Pollution Control District
9150 Chesapeake Drive
San Diego, California 92123-1096

3. Project Location:

Entire area within the boundaries of San Diego County. San Diego County is the southwestern most county in California.

4. Project Description:

The District proposes to adopt amended versions of existing Rule 52, Particulate Matter, Rule 53, Specific Air Contaminants, and Rule 54, Dust and Fumes. Existing Rule 52 specifies the maximum concentration of particulate matter allowed from emission sources not subject to Rules 53 or 54. Rule 53 limits sulfur compound and particulate matter emission related to combustion activities, and Rule 54 limits particulate emissions from industrial processes in relation to the weight of the material processed.

The proposed amendments to Rule 52 will apply the uncorrected particulate concentration (grain loading) standard contained in the rule to all sources subject to Rule 54. The proposed amendments to Rule 52 include an exemption from the more restrictive requirements of the rule for asphalt plants from the date the amendments are adopted until July 1, 1998, if such plants meet the requirements of Rule 54. The proposed amendments also include an exemption for equipment not required to obtain an Authority to Construct, Permit to Operate or Registration from the District, and an exemption for stationary internal combustion engines from the rule.

The proposed amendments to Rule 53 include: adding an exemption for equipment subject to Rule 54; adding an exemption level of 10 million British Thermal Units per hour or less heat input for equipment operating on liquid fuel; and adding an exemption level of 50 million British Thermal Units per hour or less heat input for equipment operating on gaseous fuel. An exemption will also be added for equipment not required to obtain an Authority to Construct, Permit to Operate or Registration from the District. In addition, the proposed amendments will delete the term "dispose of combustible refuse" and replace it with "reduce combustible material," add a definition for "Combustible Matter," and make minor clarifications.

The proposed amendments to Rule 54 include revisions to the process weight table in the rule to delete emission limitations less than 1.0 pounds per hour. An exemption will also be added for equipment not required to obtain an Authority to Construct, Permit to Operate or Registration from the District, and make other minor clarifications.

5. Finding:

The proposed amendments to Rule 52 will decrease particulate matter (PM₁₀) emissions by applying the uncorrected particulate concentration (grain loading) standard in Rule 52 to the asphalt plants previously subject to Rule 53 (and which will now be subject to Rules 52 and 54), and all other sources subject to Rule 54. The exemptions to Rule 53 and 54 will result in no or inconsequential increase in PM₁₀ emissions. Overall, the project will result in a net decrease in PM₁₀ emissions. Therefore, the project will not have a significant adverse effect on the environment and the adoption of the proposed amendments to Rule 52, Particulate Matter, Rule 53, Specific Air Contaminants, and Rule 54, Dust and Fumes, does not require preparation of an Environmental Impact Report.

Note: This action becomes final upon approval by the Air Pollution Control Board.

RS:jo
11/7/96

INITIAL STUDY

San Diego Air Pollution Control District

**Adoption of Amendments to
Rule 52 -- Particulate Matter
Rule 53 -- Specific Air Contaminants
Rule 54 -- Dust and Fumes**

November, 1996

Prepared by
Richard J. Smith

San Diego Air Pollution Control District
9150 Chesapeake Drive
San Diego, CA 92123-1096

**INITIAL STUDY:
Adoption of Amendments to Rules 52, 53 and 54**

I. INTRODUCTION

1. Project Name:

Adoption of amendments to Rule 52 (Particulate Matter), Rule 53 (Specific Air Contaminants) and Rule 54 (Dust and Fumes) of the San Diego County Air Pollution Control District Rules & Regulations. These rules and the associated amendments are all interrelated as one project and cannot be separated. For example, if the changes to Rule 52 are not made resulting in an emissions decrease, the changes to Rule 53 and 54 would not be recommended for adoption because they will result in an increase in emissions.

2. Project Applicant:

San Diego County Air Pollution Control District
9150 Chesapeake Drive
San Diego, California 92123-1095

3. Project Location:

Entire area within the boundaries of San Diego County. San Diego County is the southwestern most county in California.

II. PROJECT DESCRIPTION

The District has proposed adopting amendments to existing Rules 52 (Particulate Matter), 53 (Specific Air Contaminants) and 54 (Dust and Fumes). Existing Rule 52 specifies the maximum concentration of particulate matter allowable from emission sources not subject to Rules 53 or 54; Rule 53 limits sulfur compound and particulate matter emissions related to combustion activities; and Rule 54 limits particulate emissions from industrial processes in relation to the weight of material processed.

The proposed amendments to Rule 52 will apply the uncorrected particulate concentration (grain loading) standard contained in the rule to all sources subject to Rule 54. The proposed amendments to Rule 52 will also exempt asphalt plants from the date the amendments are adopted until July 1, 1998 if such plants meet the requirements of Rule 54; exempt equipment not required to obtain an Authority to Construct, Permit to Operate or Registration from the District; and exempt stationary internal combustion engines from the rule.

The proposed amendments to Rule 53 will add an exemption for equipment subject to Rule 54; add an exemption of 10 million British Thermal Units per hour or less heat input for equipment operating on liquid fuel; add an exemption level of 50 million British Thermal Units per hour or less heat input for equipment operating on gaseous fuel; delete the term "dispose of combustible refuse" and replace it with "reduce combustible material"; add a definition for "Combustible Matter"; add an exemption for equipment not required to obtain an Authority to Construct, Permit to Operate or Registration from the District; and make minor clarifications.

INITIAL STUDY:
Adoption of Amendments to Rules 52, 53 and 54

The proposed amendments to Rule 54 will revise the process weight table in the rule to delete emission limitations less than 1.0 pounds per hour; exempt equipment not required to obtain an Authority to Construct, Permit to Operate or Registration from the District; and make other minor clarifications.

A copy of the proposed amendments to Rules 52, 53 and 54 is attached.

III. ENVIRONMENTAL CHECKLIST

	YES	MAYBE	NO
1. Earth. Will the proposal result in:			
a. Unstable earth conditions or in changes in geologic substructure?	_____	_____	_____X_____
b. Disruptions, displacements, compaction or overcovering of the soil?	_____	_____	_____X_____
c. Change in topography or ground surface relief features?	_____	_____	_____X_____
d. The destruction, covering or modification of any unique geologic or physical features?	_____	_____	_____X_____
e. Any increase in wind or water erosion of soils, either on or off the site?	_____	_____	_____X_____
f. Changes in deposition or erosion of beach sands, or changes in siltation, deposition or erosion which may modify the channel of a river or stream or the bed of the ocean or any bay, inlet or lake?	_____	_____	_____X_____
g. Exposure of people or property to geologic hazards such as earthquakes, landslides, mudslides, ground failure, or similar hazards?	_____	_____	_____X_____
2. Air. Will the proposal result in:			
a. Significant air emissions for some air contaminants?	_____	_____	_____X_____
b. The creation of objectionable odors?	_____	_____	_____X_____
c. Alteration of air movement, moisture, or temperature, or any change in climate, either locally or regionally?	_____	_____	_____X_____
3. Water. Will the proposal result in:			
a. Changes in currents, or the course or direction of water movements, in either marine or fresh waters?	_____	_____	_____X_____
b. Changes in absorption rates, drainage patterns, or the rate and amount of surface runoff?	_____	_____	_____X_____
c. Alterations to the course or flow of flood waters?	_____	_____	_____X_____

INITIAL STUDY:
Adoption of Amendments to Rules 52, 53 and 54

	YES	MAYBE	NO
d. Change in the amount of surface water in any water body?	_____	_____	_____ X _____
e. Discharge into surface waters, or any alteration of surface water quality, including but not limited to temperature, dissolved oxygen, or turbidity?	_____	_____	_____ X _____
f. Alteration of the direction or rate of flow of ground water?	_____	_____	_____ X _____
g. Change in the quantity of ground waters, either through direct additions or withdrawals, or through interception of an aquifer by cuts or excavations?	_____	_____	_____ X _____
h. Substantial reduction in the amount of water otherwise available for public water supplies?	_____	_____	_____ X _____
i. Exposure of people or property to water related hazards such as flooding or tidal waves?	_____	_____	_____ X _____
 4. Plant Life. Will the proposal result in:			
a. Change in the diversity of species, or number of any species of plants (including trees, shrubs, grass, crops, and aquatic plants)?	_____	_____	_____ X _____
b. Reduction of the numbers of any unique, rare or endangered species of plants?	_____	_____	_____ X _____
c. Introduction of new species of plants into an area, or in a barrier to the normal replenishment of existing species?	_____	_____	_____ X _____
d. Reduction in acreage of any agricultural crop?	_____	_____	_____ X _____
 5. Animal Life. Will the proposal result in:			
a. Change in the diversity of species, or numbers of any species of animals (birds, land animals including reptiles, fish and shellfish, benthic organisms or insects)?	_____	_____	_____ X _____
b. Reduction of the numbers of any unique, rare or endangered species or animals?	_____	_____	_____ X _____
c. Introduction of new species of animals into an area, or result in a barrier to the migration or movement of animals?	_____	_____	_____ X _____
d. Deterioration to existing fish or wildlife habitat?	_____	_____	_____ X _____

INITIAL STUDY:
Adoption of Amendments to Rules 52, 53 and 54

	YES	MAYBE	NO
6. Noise. Will the proposal result in:			
a. Increases in existing noise levels?	_____	_____	_____X_____
b. Exposure of people to severe noise levels?	_____	_____	_____X_____
7. Light and Glare. Will the proposal produce new light and glare?	_____	_____	_____X_____
8. Land Use. Will the proposal result in a substantial alteration of the present or planned land use of an area?	_____	_____	_____X_____
9. Natural Resources. Will the proposal result in increases in the rate of use of any natural resource?	_____	_____	_____X_____
10. Risk of Upset. Will the proposal involve:			
a. A risk of an explosion or the release of hazardous substances (including, but not limited to oil, pesticides, chemicals or radiation) in the event of an accident or upset conditions?	_____	_____	_____X_____
b. Possible interference with an emergency response plan or an emergency evacuation plan?	_____	_____	_____X_____
11. Population. Will the proposal alter the location, distribution, density, or growth rate of the human population of an area?	_____	_____	_____X_____
12. Housing. Will the proposal affect existing housing, or create a demand for addition housing?	_____	_____	_____X_____
13. Transportation/Circulation. Will the proposal result in:			
a. Generation of substantial additional vehicular movement?	_____	_____	_____X_____
b. Effects on existing parking facilities, or demand for new parking?	_____	_____	_____X_____
c. Substantial impact upon existing transportation systems?	_____	_____	_____X_____
d. Alterations to present patterns of circulation or movement of people and/or goods?	_____	_____	_____X_____

INITIAL STUDY:
Adoption of Amendments to Rules 52, 53 and 54

	YES	MAYBE	NO
e. Alterations to waterborne, rail or air traffic?	_____	_____	_____X_____
f. Increase in traffic hazards to motor vehicles, bicyclists or pedestrians?	_____	_____	_____X_____
14. Public Services. Will the proposal have an effect upon, or result in a need for, new or altered governmental services in any of the following areas:			
a. Fire protection?	_____	_____	_____X_____
b. Police protection?	_____	_____	_____X_____
c. Schools?	_____	_____	_____X_____
d. Parks or other recreational facilities?	_____	_____	_____X_____
e. Maintenance of public facilities, including roads?	_____	_____	_____X_____
f. Other government services?	_____	_____	_____X_____
15. Energy. Will the proposal result in:			
a. Use of substantial amounts of fuel or energy?	_____	_____	_____X_____
b. Substantial increase in demand upon existing sources of energy, or require the development of new sources of energy?	_____	_____	_____X_____
16. Utilities. Will the proposal result in a need for new systems, or substantial alterations to existing utilities?	_____	_____	_____X_____
17. Human Health. Will the proposal result in:			
a. Creation of any health hazard or potential health hazard (excluding mental health)?	_____	_____	_____X_____
b. Exposure of people to potential health hazards?	_____	_____	_____X_____
18. Aesthetics. Will the proposal result in the obstruction of any scenic vista or view open to the public, or will the proposal result in the creation of an aesthetically offensive site open to public view?	_____	_____	_____X_____

INITIAL STUDY:
Adoption of Amendments to Rules 52, 53 and 54

	YES	MAYBE	NO
19. Recreation. Will the proposal result in an impact upon the quality or quantity of existing recreational opportunities?	_____	_____	_____X_____
20. Cultural Resources. Will the proposal:			
a. Result in the alteration of or the destruction of a prehistoric or historic archaeological site?	_____	_____	_____X_____
b. Result in adverse physical or aesthetic effects to a prehistoric or historic building, structure, or object?	_____	_____	_____X_____
c. Have the potential to cause a physical change which would affect unique ethnic cultural values?	_____	_____	_____X_____
d. Restrict existing religious or sacred uses within the potential impact area?	_____	_____	_____X_____
21. Mandatory Findings of Significance. Does the project have:			
a. The potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?	_____	_____	_____X_____
b. The potential to achieve short-term, to the disadvantage of long-term, environmental goals? (A short-term impact on the environment is one which occurs in a relatively brief, definitive period of time while long-term impacts will endure well into the future.)	_____	_____	_____X_____
c. Impacts which are individually limited, but cumulatively considerable? (A project may impact on two or more separate resources where the impact on each resource is relatively small, but where the effect of the total of those impacts on the environment is significant.)	_____	_____	_____X_____
d. Environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	_____	_____	_____X_____

INITIAL STUDY:
Adoption of Amendments to Rules 52, 53 and 54

IV. DETERMINATION OF CONSISTENCY WITH EXISTING ZONING, PLANS, AND LAND-USE CONTROLS

Amending Rules 52, 53 and 54 will be consistent with existing zoning, plans, and other applicable land use controls.

V. DETERMINATION OF DEPARTMENT OF FISH & GAME DE MINIMIS IMPACT FINDING

Based on the information contained in the environmental checklist of this Initial Study, there is no evidence before the San Diego County Air Pollution Control District that adopting the amendments to Rules 52, 53 and 54 will have any potential for adverse effect on wildlife resources or the habitat upon which the wildlife depends; and,

The San Diego County Air Pollution Control District has, on the basis of substantial evidence, rebutted the presumption of adverse effect to the resources listed in Section 753(d) of the Fish and Game Code.

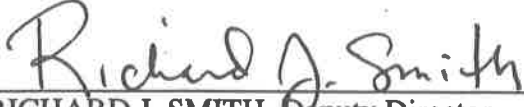
VI. DETERMINATION OF ENVIRONMENTAL DOCUMENT

Evaluation of Potential Impacts and Effects on the Environment of the Proposed Project

The proposed amendments to Rule 52 will decrease particulate matter ten microns in size or less (PM-10), the amendments to Rules 53 and 54 will result in no or an inconsequential increase in PM-10. The proposed amendments to Rule 52 will apply the uncorrected particulate concentration (grain loading) standard in Rule 52 to the asphalt plants previously subject to Rule 53, and to all other sources subject to Rule 54. The net result will be an overall decrease in PM-10 as a result of this project (adopting amendments to Rules 52, 53 and 54).

Based upon the information provided in Attachment A regarding these amendments, there is no reasonable possibility these amendments will result in a significant impact on the environment. On the basis of this initial evaluation:

- I find the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION should be prepared.
- I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because the mitigation measures(s) described in the Initial Study will be applied to the project. A MITIGATED NEGATIVE DECLARATION should be prepared.
- I find the proposed project, individually and/or cumulatively, MAY have a significant effect on the environment and determine that an ENVIRONMENTAL ASSESSMENT is required.



RICHARD J. SMITH, Deputy Director
County of San Diego, Air Pollution Control District



11-7-96

ATTACHMENT A

TECHNICAL DOCUMENTATION FOR PROPOSED PROJECT TO AMEND RULES 52, 53 AND 54

November, 1996

Prepared by
Richard J. Smith

San Diego Air Pollution Control District
9150 Chesapeake Drive
San Diego, CA 92123-1096

SUMMARY

This report evaluates the potential environmental impacts of amending District Rules 52, 53 and 54. The proposed amendments to Rule 52 will apply the uncorrected particulate concentration (grain loading) standard contained in the rule to all sources subject to Rule 54. The proposed amendments to Rule 52 will also exempt asphalt plants from the date the amendments are adopted until January 1, 1998 if such plants meet the requirements of Rule 54; exempt equipment not required to obtain an Authority to Construct, Permit to Operate or Registration from the District; and exempt stationary internal combustion engines from the rule.

The proposed amendments to Rule 53 will add an exemption for equipment subject to Rule 54; add an exemption of 10 million British Thermal Units per hour or less heat input for equipment operating on liquid fuel; add an exemption level of 50 million British Thermal Units per hour or less heat input for equipment operating on gaseous fuel; delete the term "dispose of combustible refuse" and replace it with "reduce combustible material"; add a definition for "Combustible Matter"; add an exemption for equipment not required to obtain an Authority to Construct, Permit to Operate or Registration from the District; and make minor clarifications.

The proposed amendments to Rule 54 will revise the process weight table in the rule to delete emission limitations less than 1.0 pounds per hour; exempt equipment not required to obtain an Authority to Construct, Permit to Operate or Registration from the District; and make other minor clarifications.

BACKGROUND

In 1993, the San Diego County Board of Supervisors appointed a Sunset Review Committee to review all regulations that are excessive and negatively affect job creation. An Air Pollution Control Review Committee was established to review Air Pollution Control District rules and regulations. On July 30, 1996, the Air Pollution Control Board (Board of Supervisors) approved the second and final set of recommendations from the Sunset Commission initiated by the Air Pollution Control Review Committee and directed the District to implement these recommendations. One such recommendation related to amending Rules 52, 53 and 54. The proposed changes to Rules 52, 53 and 54 address this recommendation and have been drafted in consultation with affected businesses.

Rule 52 specifies the maximum concentration of particulate matter allowable from emission sources. The proposed changes apply the uncorrected grain loading standard found in Rule 52 to all sources subject to Rule 54, exempt these sources from complying with Rule 53, and add an exemption for equipment not required to obtain an Authority to Construct, Permit to Operate or Registration from the District. They will also exempt asphalt plants in operation on the date the amendments are adopted until July 1, 1998 if such plants meet the requirements of Rule 54. All but two asphalt plant currently meets the requirements of Rule 52. Making the rule effective January 1, 1998 for asphalt plants will allow these two plants the time needed to install new control equipment. Asphalt plants must comply with Rule 54 in the interim.

Rule 53 limits sulfur compound emissions, and particulate matter emissions related to combustion activities. The proposed changes will add an exemption for equipment subject to Rule 54; add an exemption of 10 million British Thermal Units per hour or less heat input for equipment operating on liquid fuel; add an exemption level of 50 million British Thermal Units per hour or less heat input for equipment operating on gaseous fuel; delete the term

“dispose of combustible refuse” and replace it with “reduce combustible material”; add a definition for “Combustible Matter”; add an exemption for equipment not required to obtain an Authority to Construct, Permit to Operate or Registration from the District; and make minor clarifications.

Rule 54 limits particulate matter emissions from industrial processes in relation to the weight of material processed. The proposed amendments will revise the process weight table in the rule to delete emission limitations less than 1.0 pounds per hour; exempt equipment not required to obtain an Authority to Construct, Permit to Operate or Registration from the District; and make other minor clarifications.

DISCUSSION OF EMISSIONS

Excess emissions are associated with the proposed changes to Rules 53 and 54. Emissions decreases are associated with the proposed changes to Rule 52.

Rule 53 (emissions increase)

Assume 1/3 or 5 of all asphalt plants are affected by the rule change, and each has a 20,000 dscfm flow rate of effluent. Assume each plant operates 8 hours per day, 365 days per year. Assume the resulting excess emissions resulting from not correcting for combustion gases will be 0.05 gr/DSCF.

$$E = 0.05 \text{ gr/DSCF} \times 20,000 \text{ DSCFM} \times 60 \text{ min/hr} \times 8 \text{ hr/day} \times 365 \text{ days/yr} \times 1\#/7000 \text{ gr} \times 1 \text{ ton}/2000\# \times 5 \text{ facilities} = 62.6 \text{ tons/yr}$$

Assuming 40% of baghouse emissions are PM-10, PM-10 = 62.6 tons/yr x .4 = 25 tons/yr
However, asphalt plants will still be covered under Rule 54, and the revisions to Rule 52 will apply the uncorrected particulate concentration (grain loading) standard contained in the rule to the asphalt plants previously subject to Rule 53.

Other changes to Rule 53 will result in no or inconsequential additional emissions.

Rule 54 (increase)

Assume 1/2 or 200 of all facilities affected by the rule change increase their emissions by 1/2 the maximum allowable amount of 0.76 #/hr (1 #/hr - 0.24 #/hr). Assume each facility operates 8 hours per day, 365 days per year. Assume the resulting excess emissions resulting from not correcting for combustion gases will be 0.05 gr/DSCF.

$$E = 1/2 \times 0.76 \text{ \#/hr} \times 8 \text{ hr/day} \times 365 \text{ days/yr} \times 200 \text{ facilities} \times 1 \text{ ton}/2000\# = 111 \text{ tons/yr}$$

Assuming 40% of baghouse emissions are PM-10, PM-10 = 111 tons/yr x .4 = 44.4 tons/yr

Note, however, that the revisions to Rule 52 will apply the uncorrected particulate concentration (grain loading) standard contained in the rule to all sources subject to Rule 54.

Other changes to Rule 54 will result in no or inconsequential additional emissions.

Rule 52 (decrease)

Assume 5% or 20 of all facilities are affected by the more stringent requirements of the rule change, and each has a 20,000 dscfm flow rate of effluent. Assume each plant operates 8

hours per day, 365 days per year. Assume the resulting excess emissions will be 0.06 gr/DSCF.

$$E = 0.06 \text{ gr/DSCF} \times 20,000 \text{ DSCFM} \times 60 \text{ min/hr} \times 8 \text{ hr/day} \times 365 \text{ days/yr} \times 1\#/7000 \text{ gr} \times 1 \text{ ton}/2000\# \times 20 \text{ facilities} = 300.3 \text{ tons/yr}$$

Assuming 40% of baghouse emissions are PM-10, PM-10 = 300.3 tons/yr x .4 = 120.1 tons/yr

Net decrease in emissions as a result of adopting the proposed amendments to Rules 52, 53 and 54 = 120.1 - 44.4 - 25 = **50.7 tons/year**

In addition, there are two asphalt plants that will be unable to comply with the requirements of Rule 52 upon adoption the proposed amendments. These plants will need until July 1, 1998 to purchase and install the control equipment necessary to comply. There are emission increases associated with delaying compliance for these two asphalt plants. These emission increases until July 1, 1998 are calculated as follows:

Assume each asphalt plant has a 20,000 dscfm flow rate of effluent, operates 8 hours per day, 365 days per year. Assume the resulting excess emissions will be 0.06 gr/DSCF.

$$E = 0.06 \text{ gr/DSCF} \times 20,000 \text{ DSCFM} \times 60 \text{ min/hr} \times 8 \text{ hr/day} \times 365 \text{ days/yr} \times 1\#/7000 \text{ gr} \times 1 \text{ ton}/2000\# \times 2 \text{ facilities} = 30 \text{ tons/yr}$$

Assuming 40% of baghouse emissions are PM-10, PM-10 = 30 tons/yr x .4 = 12 tons/yr

Even considering this 12 ton/yr increase associated with delaying compliance for the two asphalt plants, there is still a net emissions decrease (50.7 - 12 = 38.7 tons/yr) as a result of adopting the proposed changes to Rules 52, 53 and 54. Also, actual emissions will not increase at these two asphalt plants.

ASSESSMENT OF ENVIRONMENTAL IMPACTS

Because the overall result of this project (amending Rules 52, 53 and 54) will be a decrease (50.66 tons/yr) in PM-10 emissions, and revisions to Rule 52 will apply the uncorrected particulate concentration (grain loading) standard in the rule to asphalt plants and all other sources subject to Rule 54, no adverse affect on the environment will occur. The District is unaware of any other potential adverse environmental impacts that could result from implementing this project (adopting amendments to Rules 52, 53 and 54).

CONCLUSION

Implementing this project (adopting amendments to Rules 52, 53 and 54) will have no adverse impacts on the environment and will actually result in a net emissions decrease of about 50 tons per year of particulate matter of ten microns and less. Based upon all the information provided within this report and all information available to the District, there is no reasonable possibility that this project will result in a significant impact upon the environment.