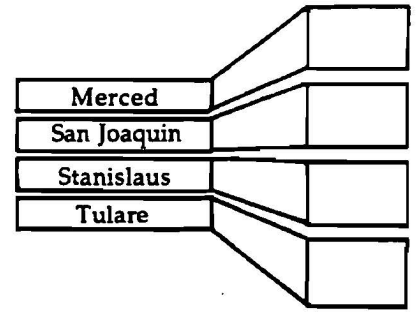


**San Joaquin Valley  
Unified Air Pollution Control District**



Regulation II

Rule 220.1

**New and Modified Stationary Source Review Rule**

Proposed for Adoption

September 19, 1991

Contact Person: Seyed Sadredin  
San Joaquin Zone  
Phone 209/ 468-3470  
FAX 209/ 943-7248

Fresno Zone (Fresno):	209/ 445-3239
Tulare Zone (Visalia):	209/ 733-6441
Madera Zone (Madera):	209/ 675-7823
Merced Zone (Merced):	209/ 385-7391
Kings Zone (Hanford):	209/ 584-1411
Stanislaus Zone (Modesto):	209/ 525-4152
Kern Zone (Bakersfield):	805/ 861-3682
San Joaquin Zone (Stockton):	209/ 468-3470

**San Joaquin Valley  
Unified Air Pollution Control District**

Fresno

Kern

Kings

Madera

Merced

San Joaquin

Stanislaus

Tulare

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RULE 220.1 - NEW AND MODIFIED STATIONARY SOURCE REVIEW RULE

I. Purposes and Applicability

A. Rule Purposes: The purposes of this rule are to:

1. Provide for the review of new and modified stationary sources of air pollution and provide mechanisms including emission trade offs by which Authorities to Construct such sources may be granted, without interfering with the attainment or maintenance of ambient air quality standards;
2. Provide relief from offset requirements where a growth allowance provides for emissions reduction equal to or greater than those emissions reductions which would be obtained from offsets pursuant to the full application of this rule; and
3. Provide for no net increase in emissions from new and modified stationary sources for all non attainment pollutants and their precursors except for PM10.

B. Applicability:

1. This rule shall apply to all new stationary sources and all modifications to existing stationary sources which are subject to the District permit requirements, and after construction, emit or may emit one or more affected pollutant.
2. The requirements of this rule in force on the date the application is determined to be complete by the Control Officer shall apply to such application.

II. Definitions

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II. Definitions



- A. Actual Emissions are measured or estimated emissions which most accurately represent the emissions from an emissions unit.
- B. Actual Emissions Reductions are the reductions of Actual Emissions from an emissions unit selected for emission offsets or banking, from the baseline period. actual emissions reductions shall be calculated pursuant to Section V of this rule, and meet the following criteria:
1. Shall be real, enforceable, quantifiable, and permanent.
  2. For actual emission reductions which result from early implementation of Best Available Retrofit Control Technology (BARCT) on an operation identified in the California Clean Air Act Plan as required by Section 40919(a)(4) of the Health and Safety Code, only 25% of such emission reductions shall be eligible as Actual Emission Reductions. For a permitting action to be considered as an early implementation of BARCT, all of the following conditions must be met:
    - a. Application for an Authority to Construct for the modification must be deemed complete after the adoption of the California Clean Air Act Plan and before the regulatory measure is placed on the annual list of control measures scheduled, or tentatively scheduled for consideration during the following year pursuant to Section 40923(a) of the Health and Safety code;
    - b. The reductions are achieved and demonstrated prior to the final compliance date specified in the adopted applicable prohibitory rule; and
    - c. The Authority to Construct shall be implemented within 2 years of issuance of the original Authority to Construct.
  3. Shall be in excess of any emissions reduction which, at the time the application for an Authority to Construct is deemed complete:
    - a. Is required or encumbered by any laws, rules, regulations, agreements, orders, (This provision does not include controls

- required by this rule.),
- b. Is attributed to a control measure noticed for workshop, or proposed or contained in a state implementation plan, except for reductions outlined in Subsection II.B.2. (This provision does not include controls required by this rule.),
  - c. Is proposed in the District's adopted air quality plan for attaining the reductions required by the California Clean Air Act except for reductions outlined in Subsection II.B.2.
4. Emissions reductions attributed to a proposed control measure, which are excluded pursuant to Subsection II.B.3.b. and II.B.3.c may be re-eligible as actual emission reductions in the following circumstances:
- a. For control measures identified in a district air quality plan or state implementation plan, no rule has been adopted within two years from the scheduled adoption date, provided, however, the Control Officer has not extended the scheduled adoption date.
  - b. For control measures not identified in a district air quality plan or state implementation plan, no rule has been adopted within two years from the date of the latest public workshop notice.
- C. Affected Pollutants are those pollutants for which an ambient air quality standard has been established by the Environmental Protection Agency or by the State Air Resources Board and the precursors to such pollutants, and those pollutants regulated by the Environmental Protection Agency under the Federal Clean Air Act or by the State Air Resources Board under the Health and Safety Code including volatile organic compounds, nitrogen oxides, sulfur oxides, PM10, carbon monoxide, ethylene, lead, asbestos, beryllium, mercury, vinyl chloride, fluorides, sulfuric acid mist, hydrogen sulfide, total reduced sulfur, and reduced sulfur compounds, and those pollutants which the Environmental Protection Agency, after due process, or the State Air Resources Board or the District,

after public hearing, determine may have a significant adverse effect on the environment, the public health, or the public welfare.

D. Ambient Air Quality Standards include State and National Ambient Air Quality Standards. (In the inclusion of this rule in the State Implementation Plan, all references in this rule to ambient air quality standard shall be interpreted as national Ambient Air Quality Standards.)

E. Baseline Date for each county shall be as follows:

San Joaquin County	May 29, 1979
Stanislaus County	June 19, 1979
Merced, Madera, or Kings County	May 21, 1979
Fresno County (Oil Fields)	September 20, 1983
Fresno County all other sources	January 1, 1977
Tulare County	June 26, 1979
Kern County (Heavy Oil Production)	September 12, 1979 June 22, 1987 for heavy oil production operations with negative cumulative net emissions change as of June 22, 1987
Kern County all other stationary sources	December 28, 1976

F. Baseline Period shall be either: 1) two consecutive years of operation immediately prior to the submission of the complete application; 2) another time period of at least two consecutive years within five years immediately prior to the submission of the complete application determined by the Control Officer as more representative of normal source operation; 3) a shorter period of at least one year in cases where the emissions unit has not been in operation for two years so long as this represents the full operation history of the stationary source; 4) emissions units which have been in operation for less than one year shall have no baseline period for determining actual emissions reductions.

- G. Best Available Control Technology is the most stringent emission limitation or control technique of the following:
1. has been achieved in practice for such emissions unit and class of source; or
  2. is contained in any State Implementation Plan (SIP) approved by the Environmental Protection Agency (EPA) for such emissions unit category and class of source. A specific limitation or control technique shall not apply if the owner or operator of the proposed emissions unit demonstrates to the satisfaction of the Control Officer that such limitation or control technique is not presently achievable; or
  3. is any other emission limitation or control technique, including process and equipment changes of basic or control equipment, found by the Control Officer to be technologically feasible for such class or category of sources or for a specific source, and cost effective as determined by the Control Officer.
- H. Best Available Retrofit Control Technology (BARCT) is defined by the Health and Safety Code as "an emission limitation that is based on the maximum degree of reduction achievable, taking into account environmental, energy, and economic impacts by each class or category of source." Upon adoption of the District's Air Quality Plan, BARCT under no circumstances shall be less stringent than the BARCT determination for the same source category included in the most recent plan.
- I. Cargo Carriers include trains dedicated to a specific stationary source and vessel dockside activities as defined in 45 Federal Register 52696 (August 7, 1980) for vessels dedicated to a specific stationary source. Motor vehicles as defined by the Vehicle Code of the State of California are not considered cargo carriers.
- J. Central Kern County Fields boundaries are described as:
- Beginning at a point common to the northerly boundary line of Kern County, and the center line of Interstate Hwy. 5 and following Interstate Hwy. 5 in a southeasterly direction to a point on the line

between Township 10N and Township 11N, SBB&M; thence east on said line between Township 10N and Township 11N to a point on the line between Range 17W and Range 18W SBB&M; thence north along said line between Range 17W and Range 18W to a point on the line between Township 32S, MDB&M and Township 12, SBB&M; thence east along said line between Township 32S and Township 12N to a point on the line between Range 30E and Range 31E, MDB&M; thence north along said line between Range 30E and Range 31E to a point on the line between Township 28S and Township 29S, MDB&M; thence east along said line between Township 28S and Township 29S to a point on the line bearing in a northerly direction between Range 30E and Range 31E, MDB&M; thence north along said line between Range 30E and Range 31E to a point on the northerly boundary line of Kern County; thence west along said boundary to the point of beginning. (Figure-1)

- K. Complete Application is an application for an Authority to Construct a new or modified emissions unit which has been evaluated and found to conform with a list of required information which was adopted by the District pursuant to Article 3, Sections 65940 through 65944 of Chapter 4.5 of Division 1 of Title 7 of the Government Code, as that list exists on the date on which the application is received.
- L. Concurrent Stationary Source Modification is the simultaneous modification of emissions units and/or addition of new emissions units to a stationary source with all emission reductions occurring after the issuance of the Authority to Construct authorizing such reductions, but before the start of operation of the new or modified emissions unit with emission increase(s).
- M. Contiguous or Adjacent Property is property consisting of two or more parcels of land with a common point or boundary, or separated solely by a public roadway or other public right-of-way.
- N. Community Bank Offsets is that sum of legally enforceable emission reductions which has been accumulated by the District in accordance with all requirements of this rule, the District Rule 230.1 (Emissions Reduction Credits Banking), and the District Rule 230.2 (Community Banking).

- O. Daily Emissions Limitation is one or a combination of permit conditions specific to an emissions unit which restrict(s) its maximum daily emissions, in pounds per day, at or below the emissions associated with the maximum design capacity. A daily emissions limitation must be:
1. Contained in the latest authority to construct and contained in or enforceable by the latest permit to operate for the emissions unit,
  2. Enforceable on a daily basis,
  3. Established pursuant to a permitting action occurring after the baseline date and used in the calculation of the NSR balance or increase in permitted emissions, and
  4. For Kern County, established pursuant to an Authority to Construct or Permit to Operate issued after June 22, 1987 for non-fuel fired heavy oil production emissions units, August 21, 1990 for fuel fired heavy oil production emissions units or the baseline date for all other emissions units and used in the calculation of the NSR balance or increase in permitted emissions.
- P. Emissions unit is an identifiable operation or piece of process equipment such as an article, machine, or other contrivance which emits, may emit, or results in the emissions of any affected pollutant directly or as fugitive emissions.
- Q. Fresno County Oil Fields are described as: All that portion of Fresno County lying westerly of the following described line:  
Beginning at a point common to Kings, Monterey and Fresno counties, which point also being the most Southerly point of Fresno County, thence Northerly and Easterly along the Fresno County line to a point on the line common to Ranges 20 East and 21 East, thence Northerly along said range line to a point on the line common to townships 16 South and 17 South, thence Northwesterly on a straight line from that point through the Southeast corner of Township 13 South, Range 17 East, to its intersection with the Northerly boundary line of Fresno County (as shown on Figure 2).
- R. Functionally Identical Replacement is the replacement of or modification of an emissions unit

where the replacement unit serves the identical function as the unit being replaced, and the maximum rating and the potential to emit any pollutant will not be greater from the new or modified emissions unit than the replaced unit , when the replaced emissions unit is operated at the same permitted conditions and as if current BACT were applied.

- S. Heavy Oil is crude oil having an American Petroleum Institute gravity of 20 degrees or less.
- T. Identical Replacement is the total or partial replacement of an emissions unit where the replacement unit is the same as the original emissions unit in all respects except for the serial number.
- U. Major Modification is the modification of a stationary source which results in an increase in permitted emissions of more than 25 tons per year of Oxides of Nitrogen, or 25 tons per year of Volatile Organic Compounds, or 15 tons per year of PM10, or 50 tons per year of Carbon Monoxide when aggregated with all other increase in emissions from the stationary source over any 5 consecutive calendar years which includes the calendar year in which the modification occurred.
- V. Major Source is a stationary source with a potential to emit 50 tons or more per year of any affected pollutant.
- W. Modification:
  - 1. Includes:
    - a. Any change in hours of operation, change in production rate, or change in method of operation, of an existing emissions unit which would necessitate a change in permit conditions.
    - b. Any structural change or addition to an existing emissions unit which would necessitate a change in permit conditions. Routine maintenance or repair shall not be considered to be a structural change.
    - c. An increase in emissions from an emissions unit caused by a modification of the stationary source and the emissions unit is not subject to a daily emissions limitation.



- d. A modification to a stationary source shall include any modification of its permitted emissions units or addition of any new emissions units.
2. A reconstructed stationary source shall be treated as a new stationary source and not as a modification.
  3. Unless previously limited by a permit condition, the following shall not be considered a modification and shall not be subject to the provisions of this rule:
    - a. Identical replacements.
    - b. A change in ownership of an existing emissions unit with valid Permit to Operate provided that the Control Officer determines that all applicable offset provisions required by the Permit to Operate will be met.
    - c. A change in ownership of an entire existing stationary source with valid Permit to Operate.
    - d. A change which consists solely of transfer of location of an emissions unit within a stationary source, except for transfer of location of an oilfield fuel burning equipment.
    - e. A change which consists solely of transfer of location of an oilfield fuel burning equipment within the area described in Subsection III.C.4. For transfer of location within a stationary source of oilfield fuel burning equipment outside the area described in Subsection III.C.4. only the requirements of Subsection III.C.4. shall apply.
- X. Non-attainment Pollutant is any pollutant for which an ambient air quality standard was exceeded within the District more than three discontinuous times (or, for annual standards, more than one time) within the three years immediately preceding the date when the application for the Authority to



Construct was filed, or which has been designated "nonattainment" pursuant to final rule-making by the Environmental Protection Agency published in the Federal Register, or which has been designated nonattainment by the Air Resources Board pursuant to Section 39607 of the Health and Safety Code. Any pollutant which is a precursor to a Non-attainment Pollutant is, itself, a Non-attainment Pollutant.

- Y. Potential to Emit is the maximum capacity of an emissions unit to emit a pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the source to emit a pollutant, including pollution control equipment and restrictions in hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design only if the limitation or the effect it would have on emissions is incorporated into the applicable permit as an enforceable permit condition.
  
- Z. PM10 is particulate matter with an aerodynamic diameter smaller than or equal to a nominal 10 microns as measured by an applicable reference test method or methods found in Article 2, Subchapter 6, Title 17, California Code of Regulations (commencing with Section 94100).
  
- AA. Precursor is a directly emitted air contaminant that, when released into the atmosphere, forms or causes to be formed or contributes to the formation of a secondary air contaminant for which an ambient air quality standard has been adopted, or whose presence in the atmosphere will contribute to the violation of one or more Ambient Air Quality Standards. The following precursor-secondary air contaminant relationships shall be used for the purposes of this rule:

Precursor	SECONDARY AIR CONTAMINANT
-----	-----
Volatile Organic Compounds	a. Photochemical oxidants (Ozone) b. The organic fraction of PM10
-----	-----
Nitrogen Oxides	a. Nitrogen dioxide b. The nitrate fraction of PM10 c. Photochemical oxidants (Ozone)
-----	-----

Sulfur	a. Sulfur dioxide
Oxides	b. Sulfates
-----	c. The sulfate fraction of PM10
-----	-----

BB. Quarter for a non-seasonal source is defined as a calendar quarter. For a seasonal source, quarter is defined as the entire operating season.

CC. Reasonable Further Progress is the annual incremental schedule of emissions reductions of a pollutant sufficient to provide for the attainment of the national ambient air quality standard for such pollutant by the date required by the federal Clean Air Act. Such an annual incremental schedule which is judged by the U. S. Environmental Protection Agency Administrator to be insufficient to provide for attainment of the national ambient air quality standard shall not be reasonable further progress.

DD. Reconstructed Source is any stationary source undergoing reconstruction where the fixed capital cost of the new components exceeds 50 percent of the fixed capital cost of a comparable, entirely new stationary source. Fixed capital cost is the capital needed to provide all depreciable components. A reconstructed stationary source shall be treated as a new stationary source and not as a modification.

EE. San Joaquin Valley Air Basin is all of San Joaquin, Stanislaus, Merced, Madera, Fresno, Kings, and Tulare Counties, and that portion of Kern County which lies west and north of a line described as follows:

Beginning at the Kern-Los Angeles County boundary and running north and east along the northwest boundary of the Rancho La Liebre Land Grant to the point of intersection with the range line common to R.15W. and R.16W., San Bernardino Base and Meridian; north along the range line to the northwest corner of S.2,T.32S.,R.32E. Mount Diablo Base and Meridian; then east along the township line common to T.32S. and T.31S.; then north along the range line common to R.35E. and R.34E.; then east along the township line common to T.29S. and T.28S.; then north along the range line common to R.36E. and R.35E.; then east along the township line common to T.28S. and T.27S.; then north along the range line common to

R.37E. and R.36E. to the Kern-Tulare County boundary.

FF. Seasonal Source is any Stationary Source with more than 90 percent of its annual emissions occurring within a consecutive 120 day period.

GG. Specific Limiting Condition (SLC) is a maximum daily emission limitation in pounds per day directly limiting the sum of emissions from two or more emissions units provided that all of the following conditions are met:

1. SLCs shall be enforceable on a daily basis. To be considered enforceable on a daily basis, SLCs for fuel fired equipment used in oil production operations in Kern County shall comply with requirements of Kern County Policy dated August 21, 1990, titled "Compliance Requirements for Oil Production Fuel Fired Equipment with specific limiting conditions;
2. SLCs must have been used to establish the cumulative net emission change for the Stationary Source, and
3. SLCs shall be contained in the Authority to Construct and Permit to Operate for each emissions unit. For oil production operations in Kern County, the original Authority to Construct must have been issued prior to August 21, 1990.

HH. Stationary Source is any building, structure, facility, or installation which emits or may emit any affected pollutant directly or as a fugitive emission.

"Building, structure, facility or installation" includes all pollutant emitting activities including emissions units which:

1. Are located on one or more contiguous or adjacent properties, and
2. Are under the same or common ownership or operation, or which are owned or operated by entities which are under common control, and
3. Belong to the same industrial grouping either by virtue of falling within the same two-digit standard industrial classification code or by

virtue of being part of a common industrial process, manufacturing process, or connected process involving a common raw material, or

4. are located on one or more properties wholly within either the Western Kern County Oil Fields or the Central Kern County Oil Fields or Fresno County Oil Fields and are used for the production of light oil, heavy oil or gas. Notwithstanding the provisions of this definition, light oil production, heavy oil production, and gas production shall constitute separate stationary sources.

II. Temporary Replacement Emissions Unit (TREU) means an emissions unit on site for less than 180 days that replaces an existing emissions unit which is shutdown for maintenance or repair. Emissions from a TREU must not exceed emissions from the existing emissions unit. An emissions unit not removed within 180 days is not a TREU.

JJ. Upwind Area is the area bounded by a line passing through the site of the new or modified source perpendicular to the predominant summer wind flow line and extending to the boundaries of the same Air Basin in the direction opposite the predominant summer wind flow. The wind flow lines used in this rule shall be those shown on the following map, entitled "Predominant Summer Wind Flow for the San Joaquin Valley Air Basin". In the event the Control Officer determines that for reasons of topography or meteorology that such a definition or map is inappropriate, a different definition or map acceptable to the Control Officer shall be used.

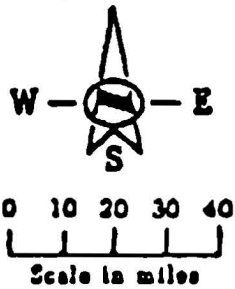
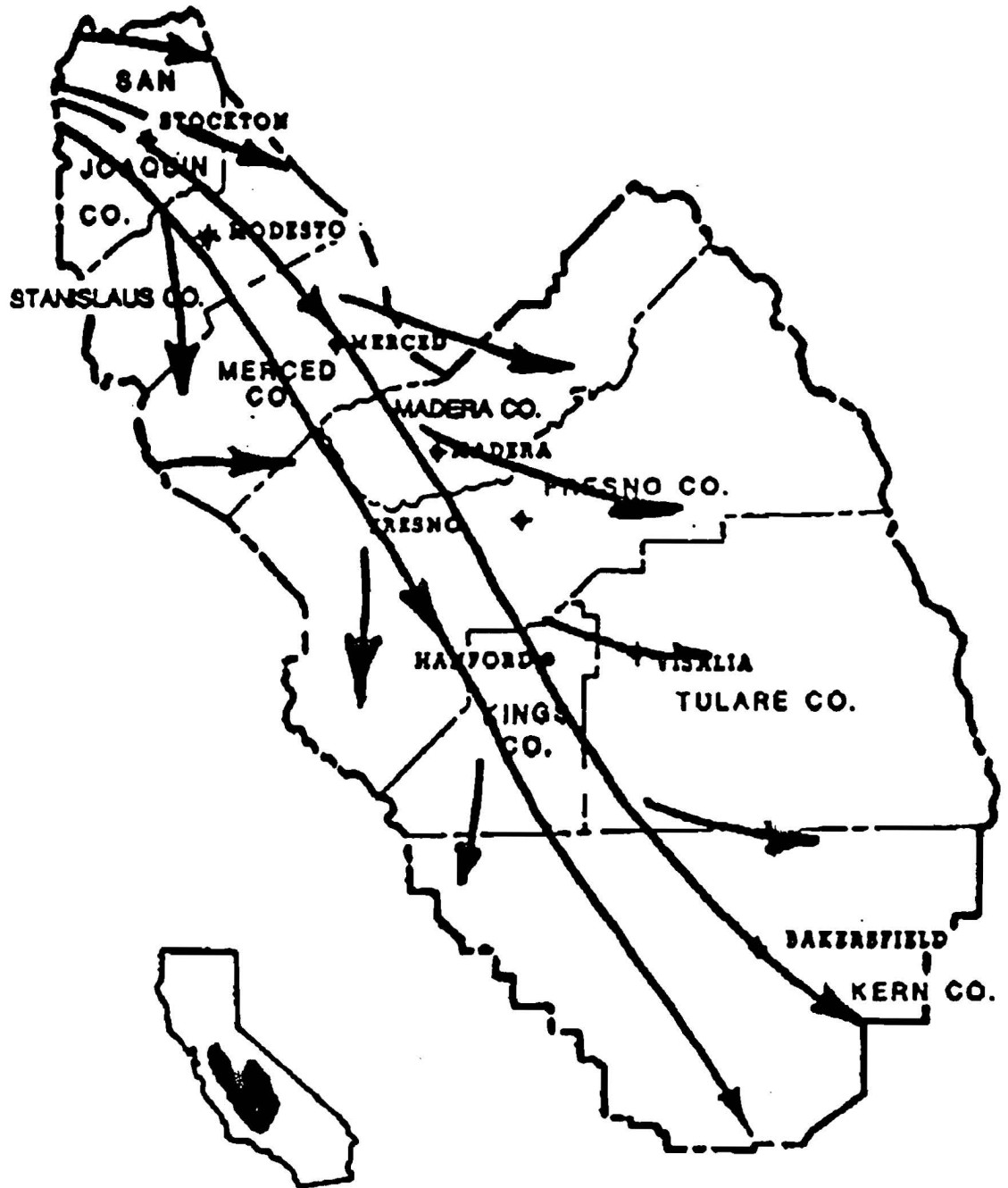
KK. Volatile Organic Compound (VOC): any compound containing at least one atom of carbon except for the following exempt compounds:  
methane,  
carbon monoxide,  
carbon dioxide,  
carbonic acid,  
metallic carbides or carbonates,  
ammonium carbonates,  
methylene chloride,  
methyl chloroform (1,1,1-trichloroethane),  
CFC-113 (trichlorotrifluoroethane),  
CFC-11 (trichlorofluoromethane),  
CFC-12 (dichlorodifluoromethane),  
CFC-22 (chlorodifluoromethane),

FC-23 (trifluoromethane),  
CFC-114 (dichlorotetrafluoroethane),  
CFC-115 (chloropentafluoroethane),  
HCFC-123 (dichlorotrifluoroethane),  
HFC-134a (tetrafluoroethane),  
HCFC-141b (dichlorofluoroethane), and  
HCFC-142b (chlorodifluoroethane).

LL. Western Kern County Fields boundaries are described as:

Beginning at a point common to the northerly boundary line of Kern County and the center line of Interstate Hwy. 5 and following the Kern County boundary in a westerly, then a southerly, and then easterly and southerly to a point common to the easterly County boundary and the line between Township 10N and Township 11N SBB&M; thence easterly along said line between Township 10N and Township 11N to a point on the line common to Interstate Hwy. 5; thence northwesterly along Interstate Hwy. 5 to the point of beginning.

PREDOMINANT SUMMER WIND FLOW FOR  
THE SAN JOAQUIN VALLEY AIR BASIN



This map shall be automatically replaced with current CARB approved maps as they become available

III. SOURCE REQUIREMENTS

A. Best Available Control Technology:

1. An applicant shall apply Best Available Control Technology to a new emissions unit or modification of an existing emissions unit which results in an increase from historic actual emissions as calculated pursuant to Subsection V.C., except for the following:

a. A new emissions unit or modification of an existing emissions unit for which the stationary source NSR balance as calculated pursuant to Section V. does not exceed the following quantities:

	<u>Lbs. Per Day</u>
carbon monoxide in attainment areas .	550
lead. . . . .	3.2
asbestos. . . . .	.04
beryllium . . . . .	.0022
mercury . . . . .	.55
vinyl chloride. . . . .	5.48
fluorides . . . . .	16.44
sulfuric acid mist. . . . .	38.35
hydrogen sulfide or total reduced sulfur or sulfur compounds (other than sulfur oxides) . . . . .	54.79

b. Cargo Carriers.

c. New emissions unit or modification of an existing emissions unit, solely for the purpose of compliance with District, state, or federal air pollution control laws, regulations, or orders, as approved by the control officer, and provided there is no increase in maximum rating. This exemption only applies to the pollutant regulated by the applicable prohibitory rule, unless the prohibitory rule specifically exempts the emissions of other pollutants from the New

and Modified Stationary Source Review Rule requirements.

- d. New emissions unit or modification of an existing emissions unit for voluntary reduction in emissions, for the sole purpose of generating emission reduction credits. This exemption applies only to the pollutant for which emission reduction credits are obtained. Best available control technology may be required for other affected pollutants.
- e. Temporary replacement emissions units.
- f. Modifications which consist solely of administrative changes to the permit, changes to the continuous monitoring components or other instruments, or replacement of components of an emissions unit, which have no effect on the quantity of pollutants emitted from an emissions unit.

**B. Offsets:**

**1. Exemptions:**

Offsets shall not be required for:

- a. Increases in carbon monoxide in attainment areas if the applicant demonstrates to the satisfaction of the Control Officer, pursuant to Subsection III.C.2.a., that the Ambient Air Quality Standards are not violated in the areas to be affected, and such emissions will be consistent with reasonable further progress, and will not cause or contribute to a violation of Ambient Air Quality Standards.
- b. Emergency equipment that is used exclusively as emergency standby equipment for nonutility electrical power generation or any other emergency equipment as approved by the Control Officer that does not operate more than 200 hours per year and is not used in conjunction with any utility voluntary demand reduction program. Equipment exempted by this Subsection, shall submit a written record of hours of operation on annual basis to receive continued exemption



from the offset requirements.

- c. An emissions unit operated for the first time within the District after (the date of adoption of this rule) and which is periodically relocated, provided that all of the following conditions are met:
  - 1) The unit is not used more than 120 days at any one stationary source within a 12 month period.
  - 2) The unit is not used as a replacement of an emissions unit which operates more than 120 days at any one stationary source within a 12 month period.
  - 3) All increase in permitted emissions from the unit, for all allowable operating days throughout the entire District, were offset at the initial site.
- d. On site soil or ground water decontamination, performed by, under the jurisdiction of, or pursuant to the requirements of, an authorized health officer, agricultural commissioner, fire protection officer, or other authorized government officers, provided emissions do not exceed two tons per year of any affected pollutant from all emissions units associated with decontamination project.
- e. Transfer of location of an entire stationary source within a county, under the same operator and ownership and provided the potential to emit of any affected pollutant will not be greater at the new location than at the previous location when all emissions units are operated at the same permitted conditions and as if current BACT were applied.
- f. New emissions unit or modification of an existing emissions unit, solely for the purpose of compliance with District, State, or Federal air pollution control laws, regulations, or orders, as approved by the control officer, and provided there is no increase in maximum rating. This exemption only applies to the pollutant regulated by the applicable prohibitory rule, unless the

prohibitory rule specifically exempts the emissions of other pollutants from the New and Modified Stationary Source Review Rule requirements.

- g. Modifications which consist solely of administrative changes to the permit, changes to the continuous monitoring components, or other instruments which have no effect on the quantity of pollutants emitted from an emissions unit.
  - h. Temporary replacement emissions units.
2. PM10, SOx, and in attainment areas for CO
- a. Effective (the rule adoption date) a new or modified stationary source with a stationary source NSR balance, calculated pursuant to Section V., exceeding the following values, except as provided in Subsection III.B.2.b, shall provide offsets for the entire stationary source NSR balance, unless exempted pursuant to Subsection III.B.1.:

	<u>lbs/day</u>
sulfur oxides . . . . .	150
PM10 . . . . .	80
Carbon monoxide in attainment areas.	550

After a stationary source has exceeded these levels and provided emissions reductions that fully offset the stationary source NSR balance to zero, that stationary source must offset any further increase in permitted emissions from the stationary source.

- b. An existing stationary source with a stationary source NSR balance, as calculated pursuant to Section V. of this rule, exceeding 150 pounds per day of sulfur oxides, 80 pounds per day of PM10, or in attainment areas exceeding 550 pounds per day of carbon monoxide as of August 22, 1989, shall offset all increase in permitted emissions from the stationary source calculated since August 22, 1989.
- c. The PM10 emissions from an existing

stationary source shall be recalculated from the total suspended particulate emissions increases and decreases which have occurred since the baseline date, using PM10 emission factors. When PM10 emissions factors do not exist, assume 50% of the total suspended particulates is PM10.

If the applicant has provided full offsets for total suspended particulate matter emissions occurring since the baseline date, but before August 22, 1989 those total suspended particulate matter emissions need not be recalculated as PM10. However, any subsequent increase in PM10 emissions must be offset.

d. Quantity of Offsets:

A new or modified stationary source which is subject to the offset requirements shall provide offsets by actual emissions reductions equal to stationary source NSR balance on a quarterly basis since the baseline date times the appropriate offset ratio. All increase in emissions associated with cargo carriers since the baseline date shall also be offset for affected pollutants for which the stationary source NSR balance, without the cargo carrier emissions, exceed the offset trigger levels cited in subsection III.B.2.a. The quantity of offsets shall be determined on a quarterly basis using the calculation procedures in Subsection V.F.

3. Nitrogen Oxides, Volatile Organic Compounds, and in non-attainment areas for Carbon monoxide:

Effective (the rule adoption date), offsets shall be provided for all increases in permitted emissions from a new or modified stationary source, unless exempted pursuant to subsection III.B.1.

a. Quantity of Offsets:

A new or modified stationary source which is subject to the offset requirements shall provide offsets by actual emissions reductions equal to the increase in permitted emissions calculated for the

stationary source, times the appropriate offset ratio, for any new or modified emissions unit since (the date of adoption of this rule). All emissions increase from cargo carriers associated with a new or modified emissions unit shall also be offset. The quantity of offsets shall be determined on a quarterly basis using the calculation procedures in Subsection V.F.

4. A new or modified stationary source which is subject to the offset requirements of this rule shall provide offsets by obtaining emission reductions in accordance with the offset ratios listed in the following table:

LINE	LOCATION	OFFSET RATIO
1.	Within the same source or from Community Bank	1 to 1
2.	Within 15 miles of the same source	1.2 to 1
3.	Within 15 to 50 miles of source and within Air Basin	2 to 1
4.	Upwind of source more than 50 miles and within Air Basin	3 to 1
5.	None available or more than 50 miles downwind	Application is denied

5. Offset Requirements:

Offsets obtained subject to this rule shall comply with the following provisions:

- a. Existing source shutdowns or permanent curtailments in production or operating hours occurring before the new source application is filed may not be used as

offsets for emissions from a major source or a major modification, unless the applicant can establish to the satisfaction of the Control Officer that the shutdown or curtailed production occurred after August 7, 1977, and that the proposed new source or modification is a replacement for the shutdown or curtailment.

- b. Offsets in a County other than that in which the proposed source is located may be used only if the Control Officer has reviewed the permit conditions issued by the County in which the proposed offsets are obtained and certifies that such offsets meet the requirements of this rule.
- c. Interpollutant offsets may be approved by the Control Officer on a case-by-case basis, provided that the applicant demonstrates to the satisfaction of the Control Officer, in accordance with the provisions of Section III.C.2 of this rule, that the emissions increases from the new or modified source will not cause or contribute to a violation of an ambient air quality standard. In such cases, the Control Officer shall, based on an air quality analysis, impose offset ratios equal to or greater than the requirements, otherwise, of this rule. In no case shall exempt compounds or the other compounds excluded from the definition of "Volatile Organic Compounds" be used as offsets for Volatile Organic Compounds. Interpollutant offsets between PM10 and PM10 precursors may be allowed. PM10 emissions shall not be allowed to offset nitrogen oxide or reactive organic compound emissions in ozone nonattainment areas, nor be allowed to offset sulfur oxide emissions in sulfate nonattainment areas.
- d. Offsets for new or modified seasonal sources are required in the same manner as for nonseasonal sources. The offsets for seasonal sources shall occur during the same time period as the seasonal source will operate. Offsets occurring during a different time period than that in which the proposed source will operate may be used subject to the approval of the Control Officer and the Air Resources Board.

C. Additional Source Requirements:

1. Alternative siting: For those sources for which an analysis of alternative sites, sizes, and production processes is required under Section 172 of the Federal Clean Air Act, the applicant shall prepare an analysis functionally equivalent to the requirements of Division 13, Section 21000 et. seq. of the Public Resources Code.
2. Ambient Air Quality Standards:
  - a. Emissions from a new or modified stationary source shall not cause or make worse the violation of an ambient air quality standard. In making this determination the Control Officer shall take into account the increases in minor and secondary source emissions as well as the mitigation of emissions through offsets obtained pursuant to this rule. Modeling used for the purposes of this rule shall be consistent with the requirements contained in the most recent edition of EPA's "Guideline on Air Quality Models" unless the Control Officer finds such model is inappropriate for use. After making such a finding, the Control Officer may designate an alternative model only after allowing for public comments and only with the concurrence of the ARB or the EPA.
  - b. At the discretion of the Control Officer, a new or modified source which is not subject to the noticing requirements as outlined in Subsection IV.3.d. of this rule shall be exempted from the requirements of Subsection III.C.2.a..
3. Compliance by Other Owned, Operated, or Controlled Sources: The owner or operator of a proposed new major source or major modification shall demonstrate to the satisfaction of the Control Officer that all major stationary sources owned or operated by such person (or by any entity controlling, controlled by, or under common control with such person) in California which are subject to emission limitations are in compliance or on a schedule for compliance with all applicable emission limitations and

standards.

4. EPA Offset Requirements for Oilfield Stationary source

Offsets shall be required for all new or reconstructed emissions units, and all modifications of existing emissions units (except as provided in Subsection III.C.4.c. below) which are used for the production of oil, and:

- a. Are expected to result, together with emissions from other oil production emissions units that are:
  1. Owned, operated, or under the control of the applicant (or under common control of the applicant and other persons), including unconstructed installations for which an Authority to Construct has been issued after the baseline date; and
  2. Located in the same USGS quarter section as the proposed new, reconstructed, or modified installation(s) and in the eight immediately surrounding quarter sections, or located on the same, Contiguous or Adjacent Properties or within a source as defined by Approvals to Construct/Modify issued by EPA between December 21, 1976 and June 30, 1979 whichever is the larger area, in any of the following for any air contaminant (or precursors, as defined in Subsection III.C.4.b) for which the area is designated nonattainment under Section 107 of the Clean Air Act: a net increase of 15 or more tons per year of PM-10 emissions, 40 or more tons per year of sulfur dioxide, or nitrogen dioxide emissions, 100 or more tons per year of carbon monoxide emissions; or
- b. In the event no other oil production facilities exist as described in Subsection III.C.4. which are expected to result in emissions of 100 or more tons per year of any air contaminant (or precursors, as defined in Subsection III.C.4.b.) for which the area is designated nonattainment under Section 107 of the Clean Air Act.

The following precursor-secondary air contaminant relationship shall be used for the purposes of Subsection III.C.4.:

Contaminant	Precursor	Secondary Air
Oxidants	Volatile Organic Compounds	a. Photochemical by (Ozone)
Oxidant	Nitrogen Oxides	a. Nitrogen Dioxide b. Photochemical (Ozone)
	Sulfur Oxides	a. Sulfur Dioxide

c. New, reconstructed, and modified emissions units subject to Subsection III.C.4. above shall be exempt from offsets if the applicant demonstrates through modeling that a significant air quality impact from these subject emissions units will not be an incremental increase in the following ambient air quality levels:

1. Total suspended particulates or sulfur dioxide - 5.0 ug/m<sup>3</sup>, 24-hour average; 1.0 ug/m<sup>3</sup>, annual average;
2. Carbon monoxide - 0.5 mg/m<sup>3</sup>, 8 hour average; 2 mg/m<sup>3</sup>, 1 hour average;
3. Nitrogen dioxide - 1.0 ug/m<sup>3</sup>, annual average.

Emissions units exempted under this provision shall not be exempt from offsets to the extent that such emissions units are subject to Subsections III.B.2., or III.B.3.

(Note: The intent of Subsection IV.C.4. is to prevent the intensification of localized exceedances of National Ambient Air Quality Standards within the central or western Kern County or Fresno County fields oil production stationary source.)



#### IV. ADMINISTRATIVE REQUIREMENTS

A. The administrative requirements of this section shall be applied to all applications for a new or modified emissions unit except for applications for power plants over 50 megawatts. For such power plants the administrative requirements of Subsection IV.B. shall be applied.

1. Complete Application: The Control Officer shall determine whether the application is complete not later than 30 days after receipt of the application, or after such longer time as both the applicant and the Control Officer may agree. If the Control Officer determines that the application is not complete, the applicant shall be notified in writing of the decision specifying the information required. Upon receipt of any resubmittal of the application, a new 30-day period to determine completeness shall begin. Completeness of an application or resubmitted application shall be evaluated on the basis of the information requirements set forth in District Rules and Regulations as they exist on the date on which the application or resubmitted application is received. Upon determination that the application is complete, the Control Officer shall notify the applicant in writing. The Control Officer may, during the processing of the application, request an applicant to clarify, amplify, correct, or otherwise supplement the information submitted in the application.
2. Preliminary Decision: Following acceptance of an application as complete, the Control Officer shall perform the evaluations required to determine compliance with this rule and make a preliminary written decision as to whether an Authority to Construct should be approved, conditionally approved, or disapproved. The Control Officer shall deny any Authority to Construct if the Control Officer finds that the subject of the application would not comply with the standards set forth in this rule or any other District rule. The decision shall be supported by a succinct, written analysis.
3. Notification and Publication of Preliminary Decision:
  - a. Within 10 calendar days following the

preliminary decision the Control Officer shall publish in at least one newspaper of general circulation in the District a notice stating the preliminary decision of the Control Officer, noting how pertinent information can be obtained, and inviting written public comment for a 30-day period following the date of publication.

- b. The District shall transmit to the applicant its preliminary written decision, the Control Officer's analysis, and a copy of the notice submitted for publication, no later than the date of publication as required in section a. above.
  - c. The District shall transmit to the Air Resources Board and the Environmental Protection Agency and to any person who requests such information its preliminary written decision, the Control Officer's analysis, and a copy of the notice submitted for publication, no later than the date of publication as required in section a. above.
  - d. The requirements of a., b., and c. above, relating to Notification and Publication of Preliminary Decisions, do not apply if the application is for a new or modified stationary source that has stationary source NSR balance less than 140 pounds per day of sulfur oxides, less than 70 pounds per day of PM<sub>10</sub>, and in attainment areas less than 550 pounds per day of carbon monoxide. However, the Control Officer is subject to notifying the applicant in accordance with Rule 203 (insert applicable District Rule number). The requirements of a., b., and c. above, relating to Notification and Publication of Preliminary Decisions, do not apply if the application is for a new or modified emissions unit that has a Increase in Permitted Emissions of 100 pounds per day or less of Volatile Organic Compounds, nitrogen oxides, or carbon monoxide non attainment areas.
4. Public Inspection of Preliminary Decision Documents: No later than at the time notice of the preliminary decision is published, the Control Officer shall make available for public inspection at the District Office the

information submitted by the applicant and the Control Officer's analysis. Information submitted which contains trade secrets shall be handled in accordance with Rule 103 of these Rules and Regulations, with Section 6254.7 of the Government Code, and with relevant sections of the Administrative Code of the State of California.

5. Final Action: Within 180 days after acceptance of an application as complete, or within 180 days after the lead agency has approved the project under the California Environmental Quality Act, whichever occurs later, the Control Officer shall take final action on the application after considering all written comments.
6. Notification and Publication of Final Action: The Control Officer shall provide written notice of the final action to the applicant, the Environmental Protection Agency, and the Air Resources Board, and shall publish such notice in a newspaper of general circulation, except that for an application not subject to the Notification and Publication of Preliminary Decision requirements the Control Officer shall not be subject to the Notification and Publication of Final Action requirements of this section. In such a case the applicant shall receive notification as provided in Rule 203 of these Rules and Regulations.
7. Public Inspection of Final Action Documents: No later than at the time that notice of final action is published, the Control Officer shall make available for public inspection at the District office a copy of the notice submitted for publication and all supporting documents. Information submitted which contains trade secrets shall be handled in accordance with Rule 103 of these Rules and Regulations, with Section 6254.7 of the Government Code, and with relevant sections of the Administrative Code of the State of California.
8. Authority to Construct - General Conditions:
  - a. An Authority to Construct shall not be issued unless the new or modified source complies with the provisions of this rule and all other applicable District Rules and

Regulations.

- b. An Authority to Construct shall require that the new or modified source be built according to the specifications and plans contained in the application.
- c. An Authority to Construct shall include all those conditions which the Control Officer deems necessary to assure construction and operation in the manner assumed in making the analysis to determine compliance with this rule.
- d. An Authority to Construct shall include all those conditions relating to the satisfaction of the offset requirements of this rule.

9. Permit to Operate - General Conditions:

- a. A Permit to Operate shall require that the new source or modification be operated in the manner assumed in making the analysis to determine compliance with this rule and as conditioned in the Authority to Construct.
- b. A Permit to Operate shall include daily emissions limitation and other enforceable conditions which reflect applicable emission limits including the offset requirements.
- c. The Control Officer shall determine that all conditions specified in the Authority to Construct have been complied with. Conditions which have not been met at the time the Permit to Operate is issued shall be incorporated into the Permit to Operate.

10. Permit to Operate - Offset Conditions:

- a. As a condition for the issuance of a Permit to Operate, any source which provides offsets shall be subject to enforceable permit conditions containing specific operational and emissions limitations, which ensure that the emissions reductions will be provided in accordance with the provisions of this rule and shall continue for the reasonably expected life of the proposed source. Where the source of offsets is not

subject to a permit, a written contract shall be required between the applicant and the owner or operator of such source, which contract, by its terms, shall be enforceable by the Control Officer. The permit and contract shall be submitted to the ARB to be forwarded to the Environmental Protection Agency as part of the State Implementation Plan. A violation of the emission limitation provisions of any such contract shall be chargeable to the applicant.

- b. Offsets required as a condition of an Authority to Construct or a Permit to Operate shall commence not later than the date of initial operation of the new or modified source, except that where a new or modified stationary source is, in whole or in part, a replacement for an existing stationary source on the same or Contiguous property the Control Officer may allow a maximum of 90 days as a start-up period for simultaneous operation of the existing stationary source and the new or replacement source.

B. The administrative requirements of this section shall be applied to all power plants over 50 megawatts proposed to be constructed in the District and for which a Notice of Intention (NOI) or Application for Certification has been accepted by the California Energy Commission. The Control Officer may apply for reimbursement of all costs incurred, including lost fees, in order to comply with the provisions of this section

1. Intent to Participate and Preliminary Report: Within 14 days of receipt of a NOI, the Control Officer shall notify the Air Resources Board and the California Energy Commission of the District's intent to participate in the NOI proceeding. If the District chooses to participate in the NOI proceeding, the Control Officer shall prepare and submit a report to the Air Resources Board and the California Energy Commission prior to the conclusion of the nonadjudicatory hearings specified in Section 25509.5 of the Public Resources Code. The report shall include at least:
  - a. A preliminary specific definition of Best Available Control Technology for the

proposed facility.

- b. A preliminary discussion of whether there is substantial likelihood that the requirements of this rule and all other District rules can be satisfied by the proposed facility.
  - c. A preliminary list of conditions which the proposed facility must meet in order to comply with this rule or any other applicable District rules. The preliminary determinations contained in the report shall be as specific as possible within the constraints of the information contained in the NOI.
2. Equivalency of Application for Certification to Application for Authority to Construct: The Control Officer shall consider an Application for Certification (AFC) to be equivalent to an application for an Authority to Construct, and subject, as such, to all definitions and requirements of this rule.
  3. Determination of Compliance Review: Upon receipt of an AFC for a power plant, the Control Officer shall conduct a Determination of Compliance review. This review shall determine whether an AFC is complete, and within 20 calendar days of receipt of the AFC the Control Officer shall so inform the California Energy Commission and the applicant in writing. If the Control Officer determines that the application is not complete, the information required shall be specified, and the AFC shall be returned to the applicant for resubmittal. Upon receipt of any resubmittal of the application, a new 20-day period to determine completeness shall begin. Completeness of an application or resubmitted application shall be evaluated on the basis of the information requirements set forth in District Rules and Regulations as they exist on the date on which the application or resubmitted application is received.
  4. Need for Additional Information: The Control Officer may request from the applicant any information necessary for the completion of the Determination of Compliance review. If the Control Officer is unable to obtain the information, he may petition the presiding Commissioner of the California Energy Commission

for an order directing the applicant to supply such information.

5. Preliminary Decision: Within 180 days of accepting an AFC as complete, the Control Officer shall make a preliminary written decision as to whether a Determination of Compliance Certification should be approved, conditionally approved, or disapproved. The Control Officer shall deny any Determination of Compliance Certification if the Control Officer finds that the subject of the application would not comply with the standards set forth in this rule or any other District rule. The decision shall be supported by a succinct, written analysis.
6. Notification and Publication of Preliminary Decision: Notification and publication of the preliminary decision shall comply with all the requirements of Subsection IV.A.3..
7. Public Inspection of Preliminary Decision Documents: Preliminary decision documents shall be made available for public inspection exactly as required by Subsection IV.A.4..
8. Final Action: Within 240 days after acceptance of an application as complete, the Control Officer, after considering all written comments, shall take final action on the application, which action shall consist of the following:
  - a. The Control Officer, if all requirements of this rule are met, shall issue and submit to the California Energy Commission a Determination of Compliance, or advise the Commission that a Determination of Compliance cannot be issued.
  - b. Notification and publication of final action shall be accomplished in accordance with Subsection IV.A.6..
  - c. Public inspection of final action documents shall be provided for in accordance with Subsection IV.A.7..
9. Equivalency of Determination of Compliance to Authority to Construct: A Determination of

Compliance shall confer the same rights and privileges as an Authority to Construct provided that the California Energy Commission approves the Application for Certification and the certificate granted by the Commission includes all conditions of the Determination of Compliance.

10. Permit to Operate: The Control Officer shall issue a Permit to Operate to any applicant receiving a certificate from the California Energy Commission pursuant to this rule provided that the construction or modification is in compliance with all conditions of the certificate and of the Determination of Compliance, and provided that the Permit to Operate includes the conditions prescribed in Subsection IV.A.9, and that offsets are assured in accordance with Subsection IV.A.10..



## V. CALCULATIONS

The following procedures shall be performed separately for each pollutant, and for each emissions unit or for a concurrent stationary source modification. All calculations shall be performed on a quarterly basis, unless specified otherwise.

### A. Major steps:

1. Determine if BACT is required: (This step may be skipped if the applicant is proposing BACT or if the applicant is exempt from BACT. See Section III for specific exemptions from BACT requirements.)
  - a. NOx, VOC, PM10, SOx and in nonattainment areas for CO:
    - 1) For new emissions units, BACT is required.
    - 2) For modifications, determine if BACT is required by determining if there is an increase in emissions in accordance with the procedures in Subsection V.C.
  - b. For other pollutants listed in Subsection III.A.1.a., and in attainment areas for CO, BACT is required if the NSR balance as calculated pursuant to the procedures in Subsection V.F. exceed the levels specified in Section III.
2. Calculate the increase in permitted emissions in accordance with procedures in Subsection V.D.
3. Calculate actual emissions reductions, except for concurrent stationary source modifications, in accordance with the procedures in Subsection V.E.
4. For NOx, VOC, and in nonattainment areas for CO:
  - a. If the actual emissions reductions, after a 10% deduction for community bank allowance, are greater than the increase in permitted emissions, the difference can be banked in accordance with the provisions of District Rule 230.1; or
  - b. If the actual emissions reductions, after a 10% deduction for community bank allowance, are less than the increase in permitted emissions, the applicant must provide offsets for the

difference.

5. For PM10, SOx, in attainment areas for CO, and other pollutants listed in Subsection III.A.1.a.:
  - a. Calculate the NSR balance in accordance with procedures in Subsection V.F.
  - b. Actual emission reductions, at the option of the applicant and in accordance with the provisions of District Rule 230.1 may be banked and added to the NSR balance, or used in reducing the NSR balance in accordance with procedures in Subsection V.F.
  - c. If the NSR balance exceeds the offset trigger levels specified in Section III, the applicant must provide offsets.
6. For all pollutants, if offsets are required, determine the quantity of offsets required in accordance with the procedures in Subsection V.G.
7. Calculate community bank allowance pursuant to Section VI.

**B. Terms:**

The following terms are used in this Subsection and are defined as follows:

**HAE =** Historical Actual Emissions are emissions having actually occurred based on source tests or calculated using actual fuel consumption or process weight, recognized emissions factors or other data approved by the Control Officer which most accurately represent the emissions during the baseline period. Historical actual emissions must be discounted for any emissions reduction which is:

Required or encumbered by any laws, rules, regulations, agreements, orders, (This provision does not include controls required by this rule.), or

Attributed to a control measure noticed for workshop, or proposed or contained in a state implementation plan, (this provision does not include controls required by this rule.), Or

Proposed in the district air quality plan for attaining the annual reductions required by the California Clean Air Act, except for early implementation of BARCT. For emission reductions occurring due to an early implementation of BARCT as defined in Subsection II.B.2., the Actual Emission Reductions must be discounted by 75%.

Under no circumstances shall historic actual emissions from an emissions unit included in an SLC be greater than the emissions for that unit used in establishing the SLC.

PEPM = Potential to Emit from the emissions unit Prior to Modification. See Subsection II.Y. for the definition of potential to emit.

PE = Potential to Emit from the new or modified emissions unit. See Subsection II.Y. for the definition of potential to emit.

CE = Control Efficiency of the proposed air pollution control technology. The control efficiency requirement shall be incorporated in the Authority to Construct and Permit to Operate by means of enforceable condition(s). Reductions due to lowering of throughput rates or operating hours shall not be considered in determining control efficiency.

AER = Actual Emission Reductions. See Subsection II.B. for the definition of actual emissions reductions.

IPE = Increase in Permitted Emissions

HAPE = Historical Adjusted Potential Emissions shall be the potential to emit prior to modification adjusted for the proposed control efficiency.

$$\text{HAPE} = \text{PEPM} * (1 - \text{CE})$$

Under no circumstances shall CE be greater than the control efficiency for the current BACT. If the proposed control efficiency is greater than the control efficiency for current BACT, then CE shall be set equal to the control efficiency for

the current BACT.

DEL = Daily Emissions Limitation. See Subsection II.O. for the definition of daily emissions limitation.

C. Calculation procedures for determining the applicability of BACT:

BACT is required if PE (potential to emit from the proposed emissions unit) minus HAE (the Historical Actual Emissions from the existing unit) is greater than zero.

D. Calculation procedures for determining increase in permitted emissions (IPE):

Increase in permitted emissions are positive numbers. All negative numbers calculated using these procedures shall be set to zero.

1. Concurrent stationary source modification: (See Subsection II.L. for the definition of concurrent stationary source modification.)

Any reduction in the authorized emission rate for which actual emissions reductions have been provided since January 1, 1988 may be used in conjunction with emissions increase in determining the net increase in permitted emissions. Only emissions units which have DEL's and which meet the definition of concurrent stationary source modification in Subsection II.L may be included in the concurrent stationary source modification.

AER is considered zero for any emissions unit used in the concurrent stationary source modification calculation procedure and calculations in Subsection V.E. shall not be performed. If a modification is to generate emissions reduction credits, the procedures in Subsections V.D.2. or V.D.3. and V.E. must be used:

IPE = sum of PE of emissions units included in concurrent stationary source modification minus the sum of actual emissions reductions provided since January 1, 1988 for all emissions units included in the concurrent stationary source modifications except those reductions currently being used to approve or offset emissions increases.

2. **Functionally Identical Replacements:**

$IPE = PE \text{ (for replacement unit)} - HAPE \text{ (unit being replaced)}$

3. **Emissions Units not covered under Subsections V.B. or V.C. above:**

a. New Emissions Unit

$IPE = PE \text{ (for the new emissions unit)}$

b. Modification of an emissions unit

$IPE = PE \text{ (for modified unit)} - HAPE \text{ (modified unit prior to modification)}$

c. Emissions units which were exempt at the time of installation

$IPE = 0 \text{ (until modified)}$

E. Calculation procedures for determining Actual Emissions Reductions (AER):

Actual emissions reductions are positive numbers. All negative numbers calculated using these procedures shall be set to zero.

Actual emission reductions calculated pursuant to Subsections V.E.1, V.E.2., or V.E.3., after a 10% deduction for community bank allowance, can be used to offset onsite increase in permitted emissions (IPE), banked for future use, or transfer to other entities, subject to the requirements of this rule and the District's banking rule. Onsite actual emission reductions used to offset contemporaneous onsite increase in emissions do not have to be banked first before use as offsets.

For emission reductions occurring due to an early implementation of BARCT as defined in Subsection II.B.2., the AER must be adjusted by 75%.

1. **Actual emission reductions solely due to reduction in operating hours and/or throughput rates.**

$AER = (HAE - PE)$

2. Shutdown of an emissions unit

$$\text{AER} = \text{HAE (for the unit prior to shutdown)}$$

3. Actual emission reductions due to installation of a control device or due to implementation of more efficient process or material.

$$\text{AER} = (\text{HAE} * \text{CE})$$

The potential to emit after modification shall be equal to potential to emit prior to modification times 1 minus the control efficiency; or

$$\text{PE (after modification)} = \text{PMPE} * (1 - \text{CE})$$

F. New Source Review (NSR) Balance:

NSR balance is only calculated for PM10, SOX, in attainment areas for CO, and for other pollutants listed in Subsection III.A.1.a. The stationary source NSR balance shall be calculated separately for each calendar quarter. The emissions from the calendar quarter with maximum emissions shall be used in determining the applicability of offset requirements. Under no circumstances shall the NSR balance be greater than the stationary source's potential to emit (including any banked emission credits) or less than zero. The NSR balance shall be calculated as follows:

1. For stationary sources, where the District has documented a cumulative net emissions change since the baseline date, the Control Officer may set the stationary source NSR balance equal to that cumulative net emissions change, or use the procedures in Subsections V.F.2. and V.F.3. to calculate the NSR balance. If the existing cumulative net emissions change is less than zero, the NSR balance shall be set to zero and the actual emissions reductions may be bankable subject to the requirements of the District's banking rule. For emissions units added, modified, or shutdown after the date of adoption of this rule, the adjustments made to the NSR balance shall be made pursuant to Subsections V.F.2 and V.F.3 of this rule. For counties where the NSR balance has been set to the previously documented cumulative net emissions change, all reference to baseline date in Subsections V.F.2 and V.F.3 shall mean the date of rule adoption.

2. The stationary source NSR balance shall be the sum of;
  - a. Daily potential to emit for all emissions units installed after the baseline date from the latest Permit to Operate, or based on the valid Authority to Construct if the emissions unit has an Authority to Construct which has not been implemented. If more than one valid Authority to Construct exist for the same emissions unit, the one with highest potential to emit must be used.
  - b. All increase in permitted emissions (IPE) authorized by valid or implemented Authority to Construct for emissions units which were in existence prior to the baseline date and were modified after the baseline date. For modifications prior to (the date of adoption of this rule), use the net emission increase values determined pursuant to the calculation procedures from the New and Modified Stationary Source Review Rule in effect at the time of modification.
  - c. Daily average of emission reduction credits that have been banked, used as offsets at another stationary source, or transferred to another entity; and
  
3. The following shall be subtracted in determining stationary source NSR balance:
  - a. Actual emissions reductions (AER) authorized by implemented Authority to Construct for emissions units which were in existence prior to the baseline date and were modified or shutdown after the baseline date but only to the extent the stationary source was charged with a positive emission change in Subsection V.F.2.c.
  - b. Banked emission reduction credits for onsite emission reductions from the stationary source for which the emission reduction credit certificate is voluntarily surrendered to the District.

G. Offset Quantity:

Once the offset requirements are triggered pursuant to the requirements of section III, the quantity of offsets

shall be determined as follows:

1. PM10, SOX, and CO in attainment areas:

$$\text{Offset} = \text{Offset ratio} * \text{Sum of PE}$$

Where,

Offset = Quantity of offsets needed, pounds per quarter

Offset ratio = distance ratios and interpollutant ratios from Section III

Sum of PE = Sum of quarterly potential to emit from all new or modified emissions units pounds per quarter since;

- a. August 22, 1989 for sources with a NSR balance in excess of the following values as of August 22, 1989:

- PM10 . . . . . 80 pounds per day
  - SOx . . . . . 150 pounds per day

- CO in attainment areas . . . 550 pounds per day

- b. the baseline date for sources not covered under subsection V.G.1.a. of this rule.

2. NOx, VOC, and CO in non attainment areas:

$$\text{Offset} = \text{IPE} * \text{Offset ratio}$$

Offset = Quantity of offsets needed, pounds per quarter

Offset ratio = distance ratios and interpollutant ratios from Section III

3. The quarterly potential to emit for the purpose of determining the quantity of offsets needed in Subsections V.G.1. or V.G.2. shall be;

- a. Equal to the daily potential to emit times the number of permitted operating days in each quarter; or

- b. Equal to the emissions unit's potential to emit on a quarterly basis, provided that in addition to a daily emission limitation, the Authority to Construct and Permit to Operate contain an



enforceable limitation on the quarterly  
emissions from the emissions unit by means of  
enforceable conditions.

## VI. COMMUNITY BANK ALLOWANCE

- A. The Community Bank is established by the District Board for the purpose of providing offsets not otherwise or readily available to stationary source categories with emissions below the levels specified in Rule 230.2 (Community Banking) and thus allowing sources to comply with the offset provisions of Subsection III.B. of this rule.
- B. The community bank is funded by preserving a portion of all Actual Emission Reductions calculated in accordance with Subsection V.E of this rule. A registry of community bank offset credits shall be maintained by the District and shall be made available for public inspection. The community bank shall be funded by the following:
  1. 10 percent of all onsite actual emissions reductions since August 22, 1989.
  2. 10 percent of all onsite actual emissions reductions created after the date of adoption of this rule.
  3. The excess offsets required and obtained pursuant to offset ratios for all offsets required since January 1, 1988. For the purpose of this Subsection, excess offsets are all actual emissions reductions in excess of a 1 to 1 ratio, on the basis of a pound of reductions per pound of increase in emissions, provided as offsets.
  4. The excess offsets required and obtained pursuant to offset ratios for all offsets required after the date of adoption of this rule. For the purpose of this Subsection, excess offsets are all actual emissions reductions in excess of a 1 to 1 ratio, on the basis of a pound of reductions per pound of increase in emissions, provided as offsets.
  5. Any unclaimed actual emission reduction credits since January 1, 1988 which are real, enforceable, quantifiable, and permanent.
  6. Any emissions reductions specifically identified in the California Clean Air Act Plan for funding of the community bank.

## VII. Reporting

By March 31, of each year, beginning in 1993, the Control Officer shall report to the District Governing Board the effectiveness of this rule in meeting the goals of Subsection I.A.3. for the preceding calendar year.

If the goals of Subsection I.A.3. for the previous calendar year are not met, the District's permitting program shall be revised as necessary to achieve the goals.