WEST VIRGINIA SECRETARY OF STATE

KEN HECHLER

ADMINISTRATIVE LAW DIVISION

Form #6

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SECRETARY OF STATE

NOTICE OF FINAL FILING AND ADOPTION OF A LEGISLATIVE RULE AUTHORIZED BY THE WEST VIRGINIA LEGISLATURE.

AGLINCI.	WV AIR POLLUCION (Jontrol Commission	TITLE NUMBER: 45CSR19
AMENDMEN	NT TO AN EXISTING RULE	E: YES_X , NO	
IF YES, SE	ERIES NUMBER OF RULE E	BEING AMENDED: 45CSR1	9
	TITLE OF RULE BEING A Determination of Emi Sources of Air Pollu	MENDED: "Requirements ission Offsets for Proutants and Emission Tr	for Pre-Construction Review, posed New or Modified Station ading for Intrasource Polluta
IF NO, SEI	RIES NUMBER OF NEW RU	JLE BEING PROPOSED:	
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AUTHORIZA SECTION THIS RULE	ERULE HAS BEEN AUTHO ATION IS CITED IN (house 64-3-1(y) IS FILED WITH THE SEC	or senate bill number), PASSED ON CRETARY OF STATE. THIS July 7, 1993	May 26, 1993

"On page fourteen, subsection §45.13.6.5 after the word "[W]ithin" by striking the word "twelve (12)" and inserting in lieu thereof the word "six (6)".

The legislative rules filed in the state register on the twenty-eighth day of August, one thousand nine hundred ninety-two, modified by the air pollution control commission to meet the objections of the legislative rule-making review committee and refiled in the state register on the nineteenth day of February, one thousand nine hundred ninety-three, relating to the air pollution control commission (regulations to prevent and control air pollution from the operation of coal preparation plants and coal handling operations), are authorized.

Title ...

Mr.

The legislative rules filed in the state register on the thirty-first day of August, one thousand nine hundred ninety-two, modified by the air pollution control commission to meet the objections of the legislative rule-making review committee and refiled in the state register on the nineteenth day of February, one thousand nine hundred ninety-three, relating to the air pollution control commission (requirements for preconstruction review, determination of emission offsets for proposed new or modified stationary sources of air pollutants and emission trading for intrasource pollutants), are authorized with amendments set forth below:

"On page twenty-one, subsection §45.19.12.5 after the word "[W]ithin" by striking the word "twelve (12)" and inserting in lieu thereof the word "six (6)".

T(z) The legislative rules filed in the state register on the twenty-eighth day of August, one thousand nine hundred ninety-two, modified by the air pollution control commission to meet the objections of the legislative rule-making review committee and refiled in the state register on the nineteenth day of February, one thousand nine hundred ninety-three, relating to the air pollution control commission (requiring the submission of emission statements for volatile organic compound emissions and oxides of nitrogen emissions), are authorized with the amendments set forth below:

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45CSR19

TITLE 45 LEGISLATIVE RULES WEST VIRGINIA AIR POLLUTION CONTROL COMMISSION

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SERIES 19

OFFICE OF WEST VIRGINIA SECRETARY OF STATE

REQUIREMENTS FOR PRE-CONSTRUCTION REVIEW, DETERMINATION OF EMISSION OFFSETS FOR PROPOSED NEW OR MODIFIED STATIONARY SOURCES OF AIR POLLUTANTS AND BUBBLE-CONCEPTEMISSION TRADING FOR INTRASOURCE POLLUTANTS

§45-19-1. General.

1.1. Scope. -- It is the intent of the Commission that all applications filed by any person to construct major new or modified stationary air pollution sources, intending to locate in areas with air quality worse than the levels set to protect the public health and welfare, or that might impact those areas, must adequately meet the pre-construction review procedures and conditions of the Clean Air Act Amendments of -1977as amended and this regulation.

These conditions are designed to ensure that the major new or modified source's emissions will be controlled to the greatest degree practicable; that more than equivalent offsetting emission reductions will be obtained from existing sources; that there will be progress toward achievement of the National Ambient Air Quality Standards; and that all applicable air pollution regulations adopted by the Commission will be met.

Further, it is the intent of the Commission to extend to the owners or operators of existing sources an alternative emission reduction concept, called the "Bubble Geneept" Emission Trading", which permits a greater burden of control where the cost of control technology is low, and a lesser burden where the cost is high.

The use of the-bubble-conceptemission trading is intended to be and should be interpreted to be, an alternative means to expeditious compliance with the applicable regulations, not as a way to avoid or unduly delay compliance with the requirements of Chapter 16, Article 20, of the Code of West Virginia, of 1931, as amended, (the Code) or the Federal Clean Air Act, as amended, nor the applicable regulations, nor as a way to avoid, delay, or reduce the sanctions flowing from previous or future non-compliance.

- 1.2. Authority. -- W. Va. Code §16-20-5
- 1.3. Filing Date. -- April-27,-1983
- 1.4. Effective Date. -- May-27,-1983
- 1.5. Type. -- This regulation is a legislative rule as defined in West Virginia Code, Chapter 29A, Article 2.

§45-19-2. Definitions.

- 2.1. "Actual Emissions", shall mean the actual rate of emissions of a pollutant from a facility-or source using actual operating hours, production rates, and type of materials processed, stored or combusted during a selected time period, which such production rate shall be on a pounds per hour basis and which such selected time period shall be a two-year period unless a determination is made by the Director that a different production rate or time period is more representative of normal operation or is necessary to carry out the intent of this regulation. For any facility or source which has not begun normal operations, actual emissions equal the potential to emit of the facility or source on the date of filing of the application to construct means the actual rate of emissions of a pollutant from an emissions unit, as described below:
- a. In general, actual emissions as of a particular date shall equal the average rate, in tons per year, at which the unit actually emitted the pollutant during a two (2)-year period which precedes the particular date and which is representative of normal source operation. The Chief may allow the use of a different time period upon a determination that it is more representative of normal source operation. Actual emissions shall be calculated using the unit's actual operating hours, production rates, and types of materials processed, stored, or combusted during the selected time period.
- b. The Director Chief may presume that source specific allowable emissions for the unit are equivalent to the actual emissions of the unit.
- c. For any emissions unit which has not begun normal operations on the particular date, actual emissions shall equal the potential to emit of the unit on that date.
- 2.2. "Allowable Emissions", shall mean the emissions rate calculated using the maximum-rate capacity-of the source-and-the most stringent-of the following:
 - (a) The applicable regulations for such source; or,
 - (b)--The-emissions rate-specified-as a permit-condition;
- (e)-Any other-legal-requirements enforceable by-the Commission under Chapter Sixteen, Article-Twenty of the West-Virginia-Code and by-the United States Environmental Protection-Agency (EPA) under-Section 113 of the Clean-Air-Act. means the emission rate of a stationary source calculated using the maximum rated capacity of the source (unless the source is subject to federally enforceable limits, limits established by the Commission or Chief pursuant to the Commission's rules which restrict the operating rate, or hours of operation, or both) and the most stringent of the following:
 - a. The applicable standards as set forth in 40 CFR Parts 60 and 61;
- b. The applicable State of West Virginia emissions limitations or permit conditions, including those with a future compliance date; or

- c. The applicable federally enforceable emissions limitations or permit conditions, including those with a future compliance date.
- 2.3. "Applicable Regulations", -shall-mean means, for the purpose of this regulation, the West Virginia Administrative Regulations of the Air Pollution Control Commission as promulgated pursuant to the Code of West Virginia, of 1931, as amended, and regulations of the Environmental Protection Agency promulgated pursuant to the Clean Air Act.
- 2.4. "Applicant", shall mean means any person who makes application to the Commission Chief for a permit to construct, modify or relocate a source in West Virginia under the provisions of this regulation.
- 2.5. "Air Pollutants"; -shall-mean means solids, liquids or gases which, if discharged into the air, may result in a statutory air pollution.
- 2-6--"Air-Quality-Control-Region (AQCR)", is-defined-in-West-Virginia-as follows:
 - Region I made up of the counties of Brooke, Hancock, Marshall and Ohio;
- Region II -- made up of the counties of Jackson, Pleasants, Tyler, Wetzel and Wood.
 - Region III -- made up of the counties of Cabell, -Mason and Wayne;
- Region-IV--made-up-of the counties of Kanawha-and-Putnam, and the Valley Magisterial-District-of Fayette-County;
- Region V made up of the counties of Boone, Lincoln, Logan, WeDowell, Mercer, Mingo, Raleigh and Wyoming, and Fayette (except the Valley-Magisterial District);
- Region-VI---made-up-of-the-counties-of-Barbour,-Harrison,-Marion, Monongalia,-Preston-and-Taylor;
- Region-VII —made-up-of the Union Magisterial District-of-Grant-County and the Elk; -New Creek; and Piedmont Magisterial Districts of Mineral County;
- Region-VIII made up of the counties of Braxton, Calhoun, Glay, Doddridge, Cilmer, Lewis, Nicholas, Ritchie, Roane, Upshur, Webster and Wirt;
- Region IX --- made -up-of-the-counties-of-Greenbrier, Hampshire, Hardy, Monroe, Pendleton, Pocahontas, Randolph, Summers, Fucker, the Grant and Milroy Magisterial Districts-of Grant County, and the Cabin Run, Frankfort, and Welton Magisterial Districts-of Mineral County;
 - Region X -- made up of the counties of Berkeley, Jefferson, and Morgan.

- 2.6. "Air Pollution", 'statutory air pollution', has the meaning ascribed to it in Section Two of the West Virginia Code 16-20, as amended.
- 2.7. "Baseline"; shall mean means the limitation of emissions of a source, as determined by the applicable regulations in effect at the time of thean application to construct or modify a source is filed and as more fully defined in Section 7 hereinof this regulation.
- 2.8. "Begin Actual Construction"; shall mean means, in general, initiation of physical on-site construction activities on an emissions facility or sourceunit which are of a permanent nature other than preparater activities. Such activities include, but are not limited to, installation of building supports and foundations, laying of underground pipework, and construction of permanent storage structures. With respect to a change in method of eperating operation, this term refers to those onsite activities other than preparatory activities which mark the initiation of the change.
- 2.9. "Chief of Air Quality" or "Chief" means the Chief of the Office of Air Quality or his or her designated representative appointed by the Director of the Division of Environmental Protection pursuant to the provisions of §22-1-1, et seq., of the West Virginia Code.
- 2.10. "Code", shall-mean means principally Chapter 16, Article 20, of the Code of West Virginia of 1931, as amended, and, where applicable, Chapter 20, Article 5E of the Code of West Virginia of 1931, as amended.
- 2.1011. "Commission"; -shall-mean means the West Virginia Air Pollution Control Commission.
- 2.1112. "Commence"; -shall-mean means as applied to construction of a major stationary source or major modification that the owner or operator has all necessary pre-construction approvals or permits and either has:
- (a)a. Begun, or caused to begin, a continuous program of actual onsite construction of the source, to be completed within a reasonable time; or
- (b)b. Entered into binding agreements or contractual obligations, which cannot be cancelled canceled or modified without substantial loss to the owner or operator, to undertake a program of actual construction of the source to be completed within a reasonable time.
- 2.1213. "Construction"; -shall-mean means any physical change or change in the method of operation (including fabrication, erection, installation, demolition, or modification of an emissions unit) which would result in a change in actual emissions.
- 2.1314. "Director"; shall-mean means the Director of the West-Virginia Air Pollution-Control-Commission Division of Environmental Protection or his or her designated representative.

- 2.15. "Division of Environmental Protection" or "DEP" means that Division of the Department of Commerce, Labor and Environmental Resources which is created by the provisions of West Virginia Code §22-1-1, et seq.
- 2.1416. "Emissions", shall mean both-direct emissions resulting-from the operations of a source or facility and those secondary emissions which are defined and quantifiable and result from activities related to such source or facility, refers to the release, escape, or discharge of air pollutants into the air.
- 2.1517. "Facility", shall-mean-an-identifiable-piece of-process-equipment.-A source is composed of one or more pollutant-emitting facilities. "Emissions Unit" means any part of a stationary source which emits or would have the potential to emit any regulated pollutant.
- 2.1618. "Fugitive Emissions", shall-mean means those emissions which could not reasonably pass through a stack, chimney, vent, or other functionally equivalent opening.
- 2.1719. "Intrapollutant Emission Offsets"; -shall-mean means that emission offsets may only be achieved for the same air pollutants which have comparable physical and chemical characteristics and properties (e.g., hydrocarbon VOC increases may not be offset against SO, reductions, or coke plant particulate matter may not be offset against boiler fly ash, or NOx may not be offset against VOC).
- 2.1820. "Intrasource Pollutants", shall mean means air pollutants emitted from within the same source which have comparable physical and chemical characteristics and properties.
- 2.1921. "Lowest Achievable Emission Rate (LAER)", shall-mean means, for any source, that rate of emissions based on the following, whichever is more stringent:
- (a)a. The most stringent emission limitation which is contained in the implementation plan of any State for such class or category of source, unless the owner or operator of the proposed source demonstrates that such limitations are not achievable; or
- (b)b. The most stringent emission limitation which is achieved in practice by such class or category of source.

This term applied to a new or modified facilityemissions unit, means the lowest achievable emission rate for such facilityemissions unit within the source. In no event shall the application of this term permit a proposed new or modified facilitystationary source to emit any pollutant in excess of the amount allowable under applicable new source standards of performance.

2.2922. "Major Modification",-shall-mean means any physical change in or change in the method of operation of a major stationary source that-would result which results in a significant net emissions increase of any regulated pollutant subject-to-regulation-by-the Commission.--Any-net-emissions increase that is

considered significant for volatile organic compounds shall be considered significant for ozone.

A physical change or change in the method of operation shall not include:

- (a)a. Routine maintenance, repair and replacement;
- (b)b. Use of an alternative fuel or raw material by reason of an order under Sections 2(a) and (b) of the Energy Supply and Environmental Coordination Act of 1974 (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the Federal Power Act;
- (e)c. Use of an alternative fuel by reason of an order or rule under Section 125 of the Clean Air Act of 1977, as amended;
- (d)d. Use of an alternative fuel at a steam generating unit to the extent that the fuel is generated from municipal solid waste;
- (e) e. Use of an alternative fuel or raw material by a stationary source which:
- (1)A. The source was capable of accommodating before December 21, 1976, unless such change would be prohibited under any legally enforceable permit condition which was established after December 21, 1976, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51.24166; or
- (2)B. The source is approved to use under any permit issued under this regulations approved pursuant to this section;
- (f)f. An increase in the hours of operation or in the production rate, unless such change is prohibited under any legally enforceable permit condition which was established after December 21, 1976, pursuant to 40 CFR 52.21 or regulations approved pursuant to 40 CFR 51.18 Subpart I or 40 CFR 51.24166;
 - (g)g. Any change in ownership at a stationary source.
 - 2.2123. "Major Stationary Source", -shall-mean means:
- (a)a. Any stationary source of air pollutants which emits, or has the potential to emit, 100 tons per year or more of any regulated pollutant-subject to regulation by the Commission; or
- (b)b. Any physical change that would occur at a stationary source not qualifying under SectionParagraph 2.21(a)23.a. above as a major stationary source if the change would constitute a major stationary source by itself.

A-major stationary source that is major for volatile-organic compounds shall be considered major for ezene.

- c. Notwithstanding the major source size specified in Paragraph 2.23.a. of this regulation, the following source sizes are also defined as major stationary sources:
- A. In serious ozone nonattainment areas, sources which emit or have the potential to emit 50 tons per year or more of VOC or 50 tons per year or more of NOx.
- B. In severe ozone nonattainment areas, sources which emit or have the potential to emit 25 tons per year or more of VOC or 25 tons per year or more of NOx.
- C. In extreme ozone nonattainment areas, sources which emit or have the potential to emit 10 tons per year or more of VOC or 10 tons per year or more of NOx.
- D. In serious carbon monoxide nonattainment areas, sources which emit or have the potential to emit 50 tons per year or more of carbon monoxide.
- $\frac{\text{E. In serious PM}_{10} \text{ nonattainment areas, sources which emit or have the potential to emit 70 tons per year or more of <math>PM_{10}$ or PM_{10} precursors.
- 2.2224. "National Ambient Air Quality Standard (NAAQS)", shall mean means the numerical standard specified by the United States Environmental Protection Agency for each air pollutant for which air quality criteria have been issued.
- 2.2325. "Necessary Pre-construction Approvals or Permits", shall-mean means, for the purpose of this regulation, those permits or approvals required by the Air Pollution Control Commission and the Glean Air Act as amended or any regulations promulgated thereby or thereunder under federal air quality control laws or regulations and air quality control laws and regulations of the State of West Virginia. Where a consent order is required to be submitted to the United States Environmental Protection Agency for inclusion in the State Implementation Plan, the applicant will not have all necessary pre-construction approvals or permits until such time as the United States Environmental Protection Agency approves such consent order for inclusion in the State Implementation Plan.
- 2.2426. "Net Emissions Increase"; shall mean means the amount by which the sum of the following exceeds zero:
- (a)a. Any increase in actual emissions from a particular physical change or change in the method of operation at a stationary source; and
- $\frac{(b)b.}{b.}$ Any other increases and decreases in actual emissions from the source that are contemporaneous with the particular change and are otherwise creditable.
- (1)A. An increase or decrease in actual emissions is contemporaneous with the increase from the particular change only if it occurs between:

- (a) The date five (5) years before construction on a particular change commences, and
- (b) The date that the increase from the particular change occurs.
- (2)B. An increase or decrease in actual emissions is creditable only if the Director Chief has not relied on it in issuing a permit for the source under this regulation which permit is in effect when the increase in actual emissions from the particular change occurs.
- (3)C. An increase in actual emissions is creditable only to the extent that the new level of actual emissions exceeds the old level.
- (4)D. A decrease in actual emissions is creditable only to the extent that:
- (a) The old level of actual emissions or the old level of allowable emissions, whichever is lower, exceeds the new level of actual emissions;
- (b) It is federally enforceable and enforceable by the CommissionChief under the Gode and by EPA under Section 113 of the Clean Air Act at and after the time that actual construction on the particular change begins;
- (c) The Director Chief has not relied on it in issuing any permit under this regulation, in demonstrating attainment of the NAAQS, or in a demonstration of reasonable further progress; and
- (d) It has approximately the same qualitative significance for public health and welfare as that attributed to the increase from the particular change.
- (5)E. An increase that results from a physical change at a source occurs when the emissions facilityunit on which construction occurred becomes operational and begins to emit a particular pollutant. Any replacement facilityunit that requires shakedown becomes operational only after a reasonable shakedown period, not to exceed one hundred eighty (180) days.
- 2.2527. "Nonattainment Area"; -shall mean means for the purpose of this regulation, those areas designated-by-the-Commission in accordance with Section 107(d) of the Clean Air Act as not having attained National Ambient Air Quality Standards for specific air pollutants. Nonattainment areas for ozone, carbon monoxide, and PM are divided into categories, which may have different major source size definitions and offset ratio requirements than in previous regulations. These categories are as follows:
- a. Ozone nonattainment areas may be designated as Marginal, Moderate, Serious, Severe, or Extreme.

b. Carbon monoxide nonattainment areas may be designated as Moderate or Severe.

c. PM₁₀ nonattainment areas may be designated as Moderate or Severe.

- 2.2628. "Offset", and "emission offset", shell-mean means an emission reduction of a given pollutant achieved at an existing source (or facilityemissions unit within such source) that allows for the emission of such given pollutant at a different proposed source (or facilityemissions unit within such proposed source); provided that the amount of reduction in emissions at the existing source (or facilityemissions unit within such source), is greater, on a pounds per hour and/or tons per year basis, than one-to-one with respect to the proposed emissions from the different source (or facilityemissions unit within such source) so that total emissions from the source including all existing and proposed facilities for a given pollutant shall be less than baseline emissions. This term shall else-meanalso means an emission reduction of a given pollutant achieved at a facilityunit within an existing source that allows for the emission of such given pollutant at a different facilityunit within the same existing source. In addition to the above requirement that offset ratios must be greater than one-to-one, the offset ratios in ozone nonattainment areas must equal or exceed:
 - a. In marginal ozone nonattainment areas, 1.1 to 1.
 - b. In moderate ozone nonattainment areas, 1.15 to 1.
 - c. In serious ozone nonattainment areas, 1.2 to 1.
 - d. In severe ozone nonattainment areas, 1.3 to 1.
 - e. In extreme ozone nonattainment areas, 1.5 to 1.
- 2.2729. "Person", shall mean means any and all persons, natural or artificial, including the State of West Virginia or any other state and all agencies or divisions thereof, any state political subdivision, the United States of America, any municipal, statutory, public or private corporation or association organized or existing under the law of this or any other state or country, and any firm, partnership or association of whatever nature.
- 2.2830. "Potential to Emit", shall mean means the maximum capacity of a stationary source 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 air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design only if the limitation or the effect it would have on emissions is legally enforceable or is enforceable by the CommissionChief in any permit and/or consent order issuedunder the Code and by the United States Environmental Protection Agency under Section 113 of the Clean Air Actor by the Chief. Secondary emissions do not count in determining the potential to emit of a stationary source.

- 2.2931. "Reasonable Further Progress", shall-mean means the annual reductions in emissions of pollutants in nonattainment areas committed-to-by-the Commission in the West-Virginia State-Implementation Plan-to assure as are required pursuant to Part D of the 1990 Clean Air Act Amendments or which are required by the Chief or USEPA for the purpose of ensuring attainment of National Ambient Air Quality Standards "(NAAQS)" by the applicable statutory deadline.
- 2:30:--"Resource Recovery-Facility", shall mean any facility at which solid waste is processed for the purpose of extracting, converting to energy, or otherwise separating and preparing solid waste for reuse. -Energy conversion facilities must utilize solid waste to provide more than fifty percent (50%) of the heat input to be considered a resource recovery facility under this regulation.
- 2.32. "Regulated Pollutant" means for the purpose of this regulation any pollutant for which the Commission has promulgated an Ambient Air Quality Standard, volatile organic compounds and nitrogen oxides.
- 2.3133. "Secondary Emissions", shall mean-emissions which occur-as a result of the construction and/or operation of a major source or major modification, but do not come from the source itself.

Secondary emission-may include; -but-are not-limited-to-

- (a)-Emissions from vessels; trains; or motor vehicles coming to or from the source; and
- (b)-Emissions-from-off-site-support-emissions units which would be constructed or would otherwise increase emissions as a result of the construction of a major source: means emissions which would occur as a result of the construction or operation of a major stationary source or major modification, but do not come from the major stationary source or major modification itself. For the purpose of this section, secondary emissions must be specific, well defined, quantifiable, and impact the same general area as the stationary source or modification which causes the secondary emissions. Secondary emissions include, but are not limited to emissions from any off-site support facility which would not otherwise be constructed or increase its emissions except as a result of the construction or operation of the major stationary source or major modification. Secondary emissions do not include any emissions which come directly from a mobile source, such as emissions from the tailpipe of a motor vehicle or from a train.
- 2.3234. "Significant", -shall mean means, in reference to a net emissions increase or the potential of a source to emit any of the following pollutants, a rate of emissions that would equal or exceed any of the following rates for such pollutants: (See Table 45-19A at the end of this regulation).
- 2.3335. "Significant Impact", shall-mean means an increase in the ambient air quality concentration for a particular pollutant as follows: (See Table 45-19B at the end of this regulation.)

- 2.3436. "Source, Stationary Source", shall-mean-all-structures, buildings, facilities, equipment, or installations which are of the same industrial grouping (i.e., the same two digit code as described in the Federal Standard Industrial Classification Manual, 1972, amended 1977) and located on one or more contiguous or adjacent properties and which are owned or operated by the same person (or by persons under common control), which may directly or indirectly cause any air pollutant to be emitted. means any building, structure, facility, or installation which emits or may emit any regulated air pollutant.
- 2.3537. "Temporary Source", and "sources of temporary emissions", shall meanmeans for a source located in a nonattainment area and subject to this regulation, those emissions occurring for a period of time less than two years.
- 2.38. "Building, Structure, Facility, or Installation" means all of the pollutant-emitting activities which belong to the same industrial grouping, are located on one or more contiguous or adjacent properties, and are under the control of the same person (or persons under common control). Pollutant-emitting activities are a part of the same industrial grouping if they belong to the same "Major Group" (i.e., which have the same two (2)-digit code) as described in the Standard Industrial Classification Manual, 1987 (United States Government Printing Office stock number GPO 0-185-718:QL 3).
- 2.39. "Federally Enforceable" means all limitations and conditions which are enforceable by the Administrator of the United States Environmental Protection Agency (USEPA) including those requirements developed pursuant to 40 CFR Parts 60 and 61, rules and regulations of the approved State Implementation Plan of the State of West Virginia, any permit requirements established pursuant to 40 CFR 52.21 or this regulation, and any operating permits issued under a USEPA-approved program that is incorporated into the State Implementation Plan and expressly requires adherence to any permit issued under such program.
- $\underline{\text{2.40.}}$ "Major Modification for Ozone" means a major modification for VOC and/or NOx.
- 2.41. "Major Stationary Source for Ozone" means a major stationary source of VOC and/or NOx.
- 2.42. "PM₁₀" means particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers as measured by a reference method described in Appendix J of 40 CFR 50.
- 2.43. "Volatile Organic Compounds (VOC)" excludes each of the following compounds, unless the compound is subject to an emission standard under Section 111 of the Clean Air Act:
 - Methane
 - Ethane
 - Methylene Chloride
 - 1,1,1-Trichloroethane (Methyl Chloroform)
 - Trichlorotrifluoroethane (CFC-113) (Freon 113)

- Trichlorofluoromethane (CFC-11)
- Dichlorodifluoromethane (CFC-12)
- Chlorodifluoromethane (CFC-22)
- Trifluoromethane (FC-23)
- Dichlorotetrafluoroethane (CFC-114)
- Chloropentafluoroethane (CFC-115)
- Dichlorotrifluoroethane (HCFC-123)
- 2-Chloro-1,1,1,2-tetrafluoroethane (HCFC-124)
- Pentafluoroethane (HFC-125)
- -1,1,2,2-Tetrafluoroethane (HFC-134)
- Tetrafluoroethane (HFC-134a)
- Dichlorofluoroethane (HCFC-141b)
- Chlorodifluoroethane (HCFC-142b)
- 1,1,1-Trifluoroethane (HCFC-143a)
- 1,1-Difluoroethane (HFC-152a)
- Cyclic, branched, or linear, completely fluorinated alkanes
- Cyclic, branched, or linear, completely fluorinated ethers with no unsaturations
- Cyclic, branched, or linear, completely fluorinated tertiary amines with no unsaturations
- Sulfur containing perfluorocarbons with no unsaturations
- and with sulfur bonds only to carbon and fluorine
- Any other compound excluded from the definition of VOC by USEPA and the Commission.
- 2.4244. "Particulate Matter" means any material, except uncombined water, that exists in a finely divided form as a liquid or solid.
- 2.4345. "TSP" or "Total Suspended Particulate Matter" means particulate matter as measured by the method described in Appendix B of 40 CFR 50.
- 2.4446. "Offset Ratio" means the ratio of total emission reductions to total emission increases, for any specific pollutant.
 - 2.4547. "USEPA" means the United States Environmental Protection Agency.

Other words and phrases used in this regulation, unless otherwise indicated, shall have the meaning ascribed to them in Chapter 16, Article 20, Section 2, of the Code of West Virginia, 1931, as amended.

§45-19-3. Applicability.

3.1. This regulation shall-applyapplies to all major stationary sources intending to locate in a designated-nonattainment area and to all major modifications to any existing sources located in a designated nonattainment areamajor stationary sources proposing to construct anywhere in an area which is designated nonattainment as of the date of issuance of the permit. This regulation shall-also applyalso applies to all proposed major stationary sources and to all major modifications to any such sources located anywhere in the State whose emission would cause a violation of a NAAQS or which would cause a significant impact on air quality

in a designated nonattainment area. This regulation shall-only applyonly applies to such proposed major stationary sources or major modifications when the expected pollutant, when discharged, would require classification of such proposed source or modification as a major stationary source or major modification and when the expected pollutant is the same pollutant for which the area of location or significant impact was designated nonattainment. Sections 1, 2, 10, 12, and 13 and 18 of this regulation shall also apply to all major stationary sources located within the State.

- 3.2. The determination under this regulation of whether such a source will cause a violation of a NAAQS or a significant impact shall be made by the DirectorChief upon a case-by-case review of the results of an adequate demonstration submitted by the applicant.
- a. The requirements of this regulation applicable for major sources of \underline{PM}_{10} also apply to major stationary sources of \underline{PM}_{10} precursors, except where a determination has been made to the satisfaction of the Chief and USEPA that such sources do not contribute significantly to \underline{PM}_{10} levels which exceed the standard in the area.
- b. The requirements of this regulation applicable for major stationary sources of VOC also apply to major stationary sources of NOx, except in the case of those sources of NOx for which a determination has been made to the satisfaction of the Chief and USEPA that no net air quality benefit will occur as a result of NOx reductions from the sources concerned.
- 3.3. This regulation shall applyapplies to portable facilities intending to locate or relocate anywhere in the State whose emission would cause a violation of a NAAQS or which would cause a significant impact on air quality in a designated nonattainment area. If the DirectorChief makes a determination of applicability pursuant to Subsection 3.2, then such portable facilities shall be considered as a new major stationary source for all purposes of this regulation and location or relocation of such source shall be considered construction.
- 3.4. Sources of temporary emissions such as pilot plants, portable facilities which will be relocated away from the nonattainment area after a short period of time, or emissions resulting from the construction phase of a new source, or resource recovery facilities utilizing municipal solid waste to provide more than fifty-percent (50%)-of-the-heat-input-for-generating-steam or electricity may be granted an exemption from the requirements of this regulation by the CommissionChief upon a demonstration by such source that such source will not significantly interfere with reasonable further progress toward attaining and maintaining the applicable NAAQS, except, the lowest achievable emission rate (LAER) shall apply to all such sources located in or having a significant impact on a nonattainment area with respect to the specific pollutant for which the area has been designated as nonattainment.
- 3.5. Any new or modified source to which this regulation is applicable shall not begin actual construction until all necessary pre-construction approvals and permits, including the permit under this regulation, have been issued.

- §45-19-4. Conditions for a Permit Approval for Proposed Major Sources That Would Contribute to a Violation of NAAQS.
- 4.1. (a)a. Upon determination by the DirectorChief that a proposed new major stationary source or major modification will locate within a nonattainment area, or that a proposed new major stationary source or major modification to be built outside a nonattainment area will have a significant impact on pollutant concentrations in a nonattainment area, as of such source's proposed start-up date, permit approval may be granted only if the applicant agrees within its permit application and permit (if approved), to meet the following conditions:
- (1)A. The proposed major stationary source or major modification is required to meet the lowest achievable emission rate (LAER) for such source;
- (2)B. The applicant must certify that all existing sources owned or operated by the applicant (or any entity controlling, controlled by, or under common control of the applicant) in West Virginia are in compliance with the Clean Air Act and Chapter 16, Article 20, of the Code of West Virginia, 1931, as amended, or the applicable regulations, or is in compliance with a compliance program or a court decree which is federally enforceable and enforceable by the Chiefunder the Code and Section 113 of the Clear Air Act;
- (3)C. More than equivalent emission offsets from existing sources in the nonattainment area impacted by the proposed new major stationary source or major modification (whether or not under the same ownership) are required such that there will be reasonable further progress toward attainment of the applicable NAAQS. For sources locating in ozone nonattainment areas, the offset ratios for VOC and NOx must equal or exceed those specified in Subsection 2.28 of this regulation. Only intrapollutant emission offsets are acceptable;
- (4)D. The emission offsets will provide a positive net air quality benefit in the affected nonattainment area. Atmospheric simulation modeling for ozone impacts is not necessary for VOC and NOx. Fulfillment of Subsection Subparagraph 4.1(a)(3).a.C. above and Subsections 8.2(a) and -(d). of this regulation will be adequate to meet this condition.
- (b)b. Upon determination by the Director Chief that technological or economic limitations on the application of measurement methodology to a particular source or class of sources would make the imposition of an enforceable numerical emission standard infeasible, the applicant may, by petition, request that the Commission Chief approve an appropriate design, operational or equipment standard. In the event that the applicant's proposed design, operational or equipment standard is unacceptable to the Commission Chief, the Commission Chief shall determine an appropriate measurement methodology or design, operational or equipment standard and shall incorporate such determinations and requirements within the permit.
- c. For phased construction projects, the determination of the lowest achievable emission rate shall be reviewed and modified as appropriate at the latest reasonable time which occurs no later than 18 months prior to commencement of construction of each independent phase of the project. At such time, the owner or

operator of the applicable stationary source may be required to demonstrate the adequacy of any previous determination of the lowest achievable emission rate for the source.

- §45-19-5. Conditions for Permit Approval for Sources Locating in Attainment or Unclassifiable Areas That Would Cause a New Violation of a NAAQS.
- 5.1. Upon determination by the Director Chief that the emissions from a proposed new major stationary source or major modification locating in attainment or unclassified areas would cause a new violation of a NAAQS, permit approval may be granted only if the applicant agrees within its permit application and permit (if approved) to meet a more stringent emission limitation and/or limit emissions of existing sources below levels allowed by the applicable regulations so that the proposed source will not cause a new violation of any NAAQS. Only intrapollutant emission offsets are acceptable.

§45-19-6. Exemptions from Certain Conditions.

- 6.1. (a)a. The Commission Chief, upon petition by the applicant, may exempt the following sources from the requirements of Subsections Subparagraphs 4.1(a)(3).a.C. and (4)D., and Section 5 of this regulation:
- (1)-Resource recovery facilities burning municipal-solid-waste; and
 - (2)A. Sources which must switch fuels:
 - (i)(a) due to lack of adequate fuel supplies; or

(ii)(b) where a source is required to be modified as a result of future regulation and no exemption from such regulations is available to the source.

- (b)b. Such exemptions may be granted only if:
- $(\frac{1}{4})\underline{A}$. The applicant demonstrates that it made its best efforts to obtain sufficient emission offsets to comply with Subsections Subparagraphs $4.1(\frac{1}{4}).a.C.$ and $(\frac{1}{4})D.$ and Section 5 of this regulation, and that such efforts were unsuccessful; and
- (2)B. The applicant has secured all reasonably available emission offsets; and
- (3)C. The applicant will continue to seek the necessary emission offsets and apply them when they become available, and the State's commitment to reasonable further progress will not be adversely affected.

§45-19-7. Baseline for Determining Credit for Emission Offsets.

- 7.1. (a)a. For the existing source providing the emission offsets, the The baseline for determining credit for emission offsets will be the allowable emissions in effect at the time the application to construct or modify a major stationary source is fled-shall be determined in accordance with USEPA's "Emission Trading Policy Statement" as published in the Federal Register at 51FR43814.
- (b)b. Emission offsets shall be made on a pounds per hour basis when all facilities involved in the emission offset calculations are operating at their maximum expected or allowed production rate.
- (e)c. The Director Chief may specify other averaging periods, such as tons per year, as an alternative to the pounds per hour basis if necessary to carry out the intent of this regulation. When offsets are calculated on a tons per year basis, the baseline emissions for existing sources providing the offset shall be calculated using the actual annual operating hours for the previous one year period (or other appropriate period if warranted by cyclical business conditions as determined by the Director Chief).
- (d)d. Where the applicable regulation requires certain design, operational or equipment standards in lieu of an emission limitation (such as floating roof tanks for petroleum storage), baseline allowable emissions shall be based on actual operating conditions for the previous one (1) to two (2) year period, whichever is appropriate, in conjunction with such design, operational or equipment standards.
- 7.2. Where the applicable regulation does not contain an emission limitation for a source or source category, the emission offset baseline involving such sources shall be the actual emissions determined in accordance with Section Subsection 7.1. of this regulation.
- 7.3. Where the applicable regulation emission limit allows greater emissions than the potential emission rate of the source, emission offset credit will be allowed only for control below the potential emission rate.
- 7.4. (a)a. The emissions for determining emission credit involving an existing fuel combustion source will be the allowable emissions under the applicable regulation for the type of fuel being burned at the time thean application is filed.
- (b)b. No emission offset credit shall be allowed for emission reductions (either actual or allowable) resulting from a switch by an existing source to a different type of fuel prior to the date thean application is filed.
- (e)c. No emission offset credit, based on the allowable emissions for an alternate fuel, to which the existing source commits to switch at some future date, shall be allowed unless the permit contains conditions requiring the use of specific alternative control measures which would achieve the same degree of emission reduction in the event the source switches back to the original fuel at some later

- date. The applicant shall ensure that adequate long-term supplies of the new fuel are available before emission offset credit for fuel switches shall be granted.
- 7.5. (a)a. A source may be credited with emission reductions achieved by shutting down an existing source or permanently curtailing production or operating hours below baseline levels if such reductions are permanent, quantifiable, federally enforceable, and enforceable by the Chief within a permit or order. In addition, such reductions are creditable if they occurred on or after the design year of the most current attainment demonstration.
- (b)b. Emission offsets that involve reducing operating hours or production or source shutdowns must be proposed by the applicant in the permit application and embodied in the permit or as more fully set forth in Section 9 hereinof this regulation.
- (e)c. Source shutdowns-and-curtailments in-production-or-operating hours-occurring-prior to the date the application is filed generally-may not-be-used for emission-offset-eredit.—However, where where an applicant can establish that it shut down or curtailed production less than three (3) years prior to the date of permit application, and the proposed source is a replacement for the shutdown or curtailment, credit for such shutdown or curtailment may be applied to offset emissions from the proposed source.
- 7-6--No emission-offset-credit-may be allowed for-replacing one hydrocarbon compound-with-another-of-lesser-reactivity;-except-for-the-following-compounds: methane;---ethane,---1;1;-1,--Trichloroethane--(Methyl---Chloroform);---and Trichloroethane-(Freen-113).

§45-19-8. Location of Offsetting Emissions.

- 8.1. Offsets shall be obtained from sources located as close to the proposed major stationary or major modified source site as possible. Except for ozone nonattainment areas, these offsets must be obtained from the same nonattainment area as the proposed major source or major modification.
- 8.2. (a)a. The Commission Chief, by petition, may allow offsets from sources located at greater distances from the proposed major stationary source or major modification provided that an adequate demonstration that nearby offsets were investigated and reasonable alternatives which provide a positive net air quality benefit are not available is submitted by the applicant, subject to the following:
- (1)A. Emission offsets for volatile organic compounds (VOC) and/or NOx will generally be acceptable from sources located within the same Air Quality-Control-Region-(AQER)ozone nonattainment area or from other ozone nonattainment areas of equal or higher classification which may can be shown to cause or significantly contribute to the ozone problem at the proposed new or modified source location;

- (2)B. Emission offsets for sources of sulfur dioxide (SO₂), and total suspended particulate (TSP), should be obtained from an existing or shutdown facility, on the same premises or in the immediate vicinity of the proposed source.
- (b)b. If such allowance is granted, as provided for in Subsection (a), Paragraph 8.2.a. of this Sectionregulation, the Commission Chief should may increase the ratio of the required offsets for such source.
- (e)c. In order to ensure that the emission offsets will provide a positive net air quality benefit, the Director Chief may, at his option, perform the necessary analysis or require the applicant to submit appropriate modeling results for review.
- (d)d. The appropriate modeling referred to in SectionParagraph 8.2(e).c. above is as follows:
- (TSP), the source's allowable emissions should be used in an atmospheric simulation model to ensure that the emission offsets provide a positive net air quality benefit. It may, however, be assumed that if the emission offsets are obtained from an existing or shutdown source on the same premises or in the immediate vicinity of the proposed major stationary source or major modification and the pollutants disperse from substantially the same effective stack height, the air quality test of SubsectionSubparagraph 4.1.(a)(4)a.D. of this regulation will be met without the necessity of modeling. Thus, when stack emissions are offset against a ground level source at the same time, modeling would be required.
- (2)B. Atmospheric simulation modeling for ozone impacts is not necessary for volatile organic compounds and NOx. For such pollutants, meeting the requirements of SubsectionSubparagraphs 4.1.(a)(3)a.C. and-Subsection 8.2.(a)(1)a.A. of this regulation will be adequate.
- (VOC) and/or NOx locating in a designated nonattainment area for ozone shall be subject to the provisions of Section 4 of this regulation.
- (b) Proposed VOC and/or NOx sources locating within thirty-six (36) hours travel time (under wind conditions associated with concentrations exceeding the NAAQS for ozone) of a nonattainment monitor shall-also beare subject to Section 4 of this regulation.
- (e)--A-proposed-VOC-source-may-be-exempt-from-these requirements-if-the-applicant-can-demonstrate-that-the-emissions-from-the-proposed source-will-have-virtually-no-effect-upon-any-nonattainment-area for-ozone.--This exemption is only-intended for-remote-rural sources whose emissions-would-be-very unlikely-to-interact-with other-significant-sources of-VOC-or-NO_x-to-form-additional ozone.

§45-19.9. Administrative Procedures for Emission Offset Proposals.

- 9.1. Emission offsets may be proposed either by the applicant for the proposed major stationary source or major modification or by the local community or the State.
- (a)a. The emission offsets committed to must be accomplished by the applicant's proposed start-up date, except when such proposed source is a replacement for a source that is being shut down in order to provide the necessary benefits; in such cases the Director Chief may allow up to one hundred eighty (180) days for shakedown of the new source before the existing source is required to cease operation. Such allowances must be requested by the applicant and contained, if granted, within the construction permit.
- (b)b. If the emission reductions which are to be used as offset credit for a proposed major stationary source or major modification are to be obtained in a State that neighbors West Virginia, or from another source at another site not controlled by the applicant-for effset credit for a proposed major stationary source or major modification, the offsets committed to must be embodied in a United States Environmental Protection Agency approved State Implementation Plan revision in the neighboring State and must be legally federally enforceable and enforceable by both such neighboring State and the CommissionChief in accordance with the Gode and the United-States Environmental Protection Agency in accordance with Section 113-of the Clean-Air-Act and at all participating sources.
 - 9.2. (a)a. The applicant may propose emission offsets which involve:
- (1)A. Reductions from sources controlled by the applicant; and/or
- (2)B. Reductions from neighboring sources not controlled by the applicant.
- (b)b. A state or local community which desires that a major stationary source or major modification locate in its area may commit to reducing emissions from existing sources to sufficiently offset the impact of such proposed source.
- 9.3. Any emission offset proposal described in SectionSubsection 9.2. above must be embodied either in the applicant's permit application and permit if such offsets are directly controlled by the applicant or if from neighboring sources located in the State not controlled by the applicant, in a consent order as provided in Chapter 16, Article 20, Section 5 (17) of the Code, which such consent order shall be submitted to the United States Environmental Protection Agency for inclusion in the State Implementation Plan. (Note: See SectionSubsection 2.2325 of this regulation regarding necessary pre-construction approvals or permits.)

§45-19-10. Control of Fugitive Emissions.

10.1. Fugitive emissions associated with a proposed major stationary source or major modification subject to this regulation shall not be excluded from the

provisions of this regulation.

\$45-19-11. Offsetting of Secondary Emissions.

- 11.1. The conditions of this regulation must be met for secondary emission of a particular pollutant only if the proposed major stationary source or major modification is subject to this regulation for emission of that same pollutant.
- 11.2. For the purposes of this regulation, secondary emissions must be shown as specific and well defined, must be quantifiable, and must impact the nonattainment area.
- 11.3. Secondary emissions shall not be considered in determining whether the significant impact levels as defined in Section Subsection 2.3335 of this regulation would be exceeded.
- 11.4. (a)a. For the following pollutants, the determination of whether, in the area of nonattainment, there is any overlap between the areas of impact of the direct emissions and the secondary emissions, shall be based on a pollutant-by-pollutant analysis:
- (1)A. For total suspended particulate (TSP) and sulfur dioxide (SO₂), the areas of impact shall be determined by modeling in accordance with SubsectionParagraph 8.2(d).d.
- (2)B. For volatile organic compound (VOC) emissions, the area of impact would be the areas designated as nonattainment for ozone or as otherwise shown to be in violation of the NAAQS for ozone.
- (b)b. If the applicant and the Director Chief disagree as to whether the secondary emissions impact the same area as the direct emissions, the applicant has the burden of proving it is correct by performing the necessary modeling.

§45-19-12. Permit Requirements for Major Stationary Sources and Major Modifications.

- 12.1. No person shall cause, suffer, allow, or permit the construction or relocation of any major stationary source or a major modification to be commenced after the effective date of this regulation in any area designated as nonattainment under Section 107 of the Clean Air Act, without notifying the Chief of such intent and obtaining prior to commencement of construction, modification, or relocation a permit(s) to so construct, modify, or relocate the major stationary source or major modification as herein provided.
- 12.2. The owner or operator of the source shall file with the Chief a timely and complete permit application containing sufficient information as, in the judgement of the Chief, will enable the Chief to determine whether such source construction, modification, or relocation will be in conformance with the provisions of any rules and regulations promulgated by the Commission in general and with the

requirements of this regulation. Such information may include, but not be limited to:

- a. A description of the nature, location, design capacity, and typical operating schedule of the source or modification, including specifications and drawings showing its design and plant layout;
 - b. A detailed schedule for construction of the source or modification;
- c. A detailed description as to what system of continuous emission reduction is planned by the source or modification, emission estimates, and any other information as necessary to determine that the requirement for lowest achievable emission rate as applicable would be met;
- d. The air quality impact of the source or modification, including meteorological and topographical data necessary to estimate such impact; and
- e. A detailed description of any emission offsets proposed by the applicant.
- 12.3. Each permit application shall be signed by the owner or operator of the major stationary source or major modification, and such signature shall constitute an agreement that the applicant will assume responsibility for the construction, modification, or relocation, and operation of the major stationary source or major modification in accordance with applicable rules and regulations of the Commission, the permit application, and any permit issued pursuant to this regulation.
- 12.4. Within thirty (30) days of the receipt of a permit application for construction or relocation of a major stationary source or for a major modification, the Chief shall determine if the application is complete or if there exists any deficiency in the application or information submitted, and shall notify the applicant of all such deficiencies, if any. In the event of such a deficiency, the date of receipt of the application shall be the date on which the Chief received all required information.
- 12.5. Within twelve (12) months of the receipt of a complete permit application for construction or relocation of a major stationary source or for a major modification, the Chief shall issue such a permit unless the Chief determines that the proposed major stationary source or major modification has not satisfied the requirements of this regulation, will violate applicable emission standards, will interfere with the attainment or maintenance of applicable ambient air quality standards, or will be inconsistent with the intent and purpose of this regulation, in which case the Chief shall issue an order for the prevention of such construction, modification, or relocation.
- 12.6. When the Chief denies a permit application for the proposed construction or relocation of any major stationary source or major modification, the order shall set forth the Chief's reasons with reasonable specificity.

12.7. The Chief may impose any reasonable conditions as part of a granted construction, modification, or relocation permit. Such conditions may include, but not be limited to, the submission of periodic progress or operation reports, the provisions of a suitable sampling site, the installation of pollutant monitoring devices, and the operation and maintenance of ambient air quality monitoring stations.

§45-19-13. Public Review Procedures.

- 13.1. After completing the review of a complete application, the Chief shall make a preliminary determination whether a permit should be approved, approved with conditions, or disapproved.
- 13.2. The Chief shall make available in at least one location in the region in which the proposed source would be constructed a copy of all materials the applicant submitted (excluding data entitled to protection as confidential information under the Code and any regulations pursuant thereto), a copy of the preliminary determination, and a copy or summary of other materials, if any, considered in making the preliminary determination.
- 13.3. The Chief shall place a Class I legal advertisement in a paper of general circulation in the area where the proposed source would be constructed, modified, or relocated. The advertisement shall contain, as a minimum, the name of the applicant, the type and location of the source, the proposed start-up date, the preliminary determination, notification of the opportunity for written public comment, provisions for requesting a public meeting, details concerning the time and place of such a meeting if one has already been scheduled, and notification of the opportunity for comment at a public meeting if such meeting is to be conducted. A public comment period of thirty (30) days shall be provided and so stated in the advertisement.
- 13.4. The Chief shall send a copy of the advertisement to the applicant, to USEPA, and to officials and agencies having cognizance over the location where the proposed construction would occur as follows: any other State or local air pollution control agencies, the chief executives of the city and county where the source would be located; any comprehensive regional land use planning agency, any State, and any Federal Land Manager, whose lands may be affected by emissions from the source or modification.
- 13.5. Public comments submitted within thirty (30) days after the Chief's public notification of an opportunity for comment upon a proposed construction or relocation of a major stationary source or major modification and comments submitted within a specified period not to exceed fifteen (15) days after any public meeting to receive comment on such proposed construction, modification, or relocation shall be considered by the Chief before making a final decision on the approvability of the application. The Chief shall make copies of all comments available for public inspection in the same locations where the Chief made available preconstruction information relating to the proposed source or modification.

- 13.6. The Chief shall make a final determination whether construction should be approved, approved with conditions, or disapproved.
- 13.7. The Chief shall notify the applicant in writing of the final determination and make a copy of such notification available for public inspection at the same location where the Chief made available preconstruction information and public comments relating to the proposed source or modification.

§45-19-14. Public Meetings.

- 14.1. Public meetings to receive comments on permit applications shall be held when the Chief deems it appropriate or when substantial interest is expressed, in writing, by persons who might reasonably be expected to be affected by the proposed major source or major modification.
- 14.2. The Chief or the Chief's designee shall preside over such meetings and insure that all interested parties have ample opportunity to present comments. Such meetings shall be held at a convenient place as near as practicable to the location of the proposed major source or major modification.
- 14.3. At a reasonable time prior to such meetings, the Chief shall provide appropriate information to news media in the area where the proposed source or modification is to be located.

§45-19-15. Permit Transfer, Cancellation, and Responsibility.

- 15.1. A permittee may petition the Chief for a transfer of a permit previously issued in accordance with this regulation. The Chief shall approve such permit transfer provided the following conditions are met:
- a. The permittee, in the petition, describes the reasons for the requested permit transfer and certifies that the subject source is in compliance with all the provisions and requirements of its permit, and
- b. The transferee acknowledges, in writing, that it accepts and will comply with all the requirements, terms, and conditions as contained in the subject permit.
- 15.2. The Chief shall cancel or suspend a permit if, after eighteen (18) months from the date of issuance the holder of the permit cannot provide the Chief, at the Chief's request, with written proof of a good faith effort that such construction, modification, or relocation has commenced and remains ongoing. Such proof shall be provided not later than thirty (30) days after the Chief's request.
- 15.3. The Chief may cancel or suspend the permit if the plans and specifications upon which the approval was based or the conditions established in the permit are not adhered to.
- 15.4. Any person who owns or operates any particular source or modification which becomes a major stationary source or major modification solely by virtue of a

relaxation in any limitation, enforceable by USEPA or the Chief, on the capacity of the source or modification otherwise to emit a pollutant (such as a restriction on hours of operation), shall become subject to the requirements of this regulation as though construction had not yet commenced on the source or modification.

§45-19-16. Disposition of Permits.

16.1. In the event that the Commission promulgates changes to this regulation or in the event of a redesignation of an attainment or non-attainment area (in accordance with Section 107 of the Clean Air Act) prior to final disposition of a permit, the Chief shall make final disposition of the permit application in accordance with such newly promulgated standards or redesignation.

§45-19-17. Requirements for Air Quality Models.

- 17.1. All estimates of ambient concentrations required under this regulation shall be based on the applicable air quality models, data bases, and other requirements specified in the "Guideline on Air Quality Models (Revised)" (1986) (EPA-450/2-78-027R) and Supplement A (1987).
- 17.2. Where an air quality impact model specified in the "Guideline on Air Quality Models (Revised)" (1986) and Supplement A (1987) is inappropriate, the model may be modified or another model substituted, provided that said modification or substitution is approved in writing by the USEPA Administrator.

§45-19-1218. Bubble ConceptEmission Trading Plans for Intrasource Pollutants.

- 1218.1. The owner or operator of a source with multiple process-related emission facilities (stacks, vents, ports, etc.), each of which is subject to specific emission requirements under the applicable regulations, may propose to meet the total emission control requirements of the applicable regulations, for a given pollutant, through a different mix of emissions control technologyrequirements. No bubble concept designsuch emission trading proposal shall be approved or allowed to vary or alter New Source Performance Standards (40 CFR Part 60)-and, National Emissions Standards for Hazardous Air Pollutants (40 CFR Part 61), or any source-specific emission limitations established under the Commission's pre-construction review regulations and 45 CSR 27.
- ‡218.2. It is the responsibility of the owner or operator of the source to develop its specific bubble concept designemission trading proposal. The owner or operator also has the burden to demonstrate to the satisfaction of the Commission Chief that the proposed bubble concept designemission trading proposal is equivalent in emission reduction, enforceability, and environmental impact to existing individual process standards or applicable regulations.
- 4218.3. The Commission Chief shall not approve any bubble-concept designemission trading proposal without first giving due notice and holding a public hearing, on a case-by-case basis. Such approved bubble-concept-designemission trading proposal shall be embodied in a consent order as provided in Chapter 16, Article 20, Section 5 (17) of the Code, which such consent order shall be submitted

to the United States Environmental Protection Agency for inclusion in the State Implementation Plan.

1218.4. An approved-bubble-concept-design-shall-be-in effect for-any-such source-for a period-of-no more-than-three-(3) years from the date-of-issuance for sources-located in nonattainment-areas and five-(5)-years-for-sources-located in attainment-areas.—At-the-end-of-such-three-(3)-or-five-(5)-year-period,-the Commission shall review the bubble-concept design for-such-source and may extend approval-of-the-design-based-on-consideration-of-air-quality,-control-technology innevation,-compliance-and-such-other-determinations-as-the-Commission-deems appropriate-Any such emission trading proposal must meet all requirements of USEPA's "Emission Trading Policy Statement" as published in the Federal Register at 51 FR 43814.

\$45-19-13:- Discretionary-Decisions Made-by-the Director.

13.1.-Any discretionary decision made by the Director as provided herein may be-presented to the Commission for review by petition. - The consideration of any such review shall be discretionary with the Commission.

\$45-19-19. Conflict with Other Permitting Rules.

19.1. For sources subject to the permitting requirements of this regulation, the provisions of 45 CSR 13 - "Permits for Construction, Modification, or Relocation of Stationary Sources of Air Pollutants, and Procedures for Registration and Evaluation" do not apply, provided, however, that the base permit application fee of \$1,000 under Paragraph 3.4.a. of 45CSR22 shall apply to such sources in addition to other applicable fees.

§45-19-20. Severability.

20.1. The provisions of this regulation are severable and if any provision or part thereof shall be held invalid, unconstitutional, or inapplicable to any person or circumstance, such invalidity, unconstitutionality, or inapplicability shall not affect or impair any of the remaining provisions, sections, or parts of this regulation or their application to any persons or circumstances.

TABLE 45-19A

Carbon monoxide:	100	tons per	year (tpy)						
Nitrogen oxides:	_ 40	tpy	_						
Sulfur dioxide:	40	tpy	- , -						
Particulate matter:	25	tpy							
PM ₁₀ :	15	tpy	-						
Ozone:	40	FT		e compo	unds				
Ozone,	40	tpy of V	OC or NOx						
marginal and modera nonattainment areas		्रिक्ट - -		-					
Ozone,	25	tons of V	OC or NOx	-					
serious and severe		determin			-				
nonattainment areas		consecut	ive 5 year pe	riod					
Ozone,	zero	tons of V	OC or NOx						
extreme nonattainme	nt areas		*						
Lead:	0.6	tpy	•						
TABLE 45-19B			÷	 , ,	<u> </u>				
Averaging time (hours)									
Annual	24	8	3	1					
Pollutant:			ma i						
	- 1 ³ 5.0 ug/m ³		25.0 ug/s	m³					
-									
TSP 1.0 ug/m	1 ³ 5.0 ug/m ³		• • • • • • •						
<u>PM</u> ₁₀ 1.0 ug/m	$\frac{1^3}{1^2} \cdot \cdot \cdot 5.0 \text{ug/m}^3$	<u> </u>	<u> </u>	· · · · ·	<u> </u>				
NO_2 1.0 ug/m		• • • • • •	• • • • • • •	· • • • •	• • • • •				
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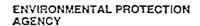
Thursday December 4, 1986

Part III

Environmental Protection Agency

Emissions Trading Policy Statement; General Principles for Creation, Banking and Use of Emission Reduction Credits; Final Policy Statement and Accompanying Technical Issues Document





[FRL-3085-8]

Emissions Trading Policy Statement; General Principles for Creation, Banking and Use of Emission Reduction Credits

AGENCY: Environmental Protection Agency.

ACTION: Final policy statement and accompanying technical issues document.

SUMMARY: This Policy Statement replaces the original bubble policy (44 FR 71779, December 11, 1979) and makes final revisions in an Interim Emissions Trading Policy which was published April 7, 1982 (47 FR 15076) and on which further comments were requested August 31, 1983 (48 FR 39589).

The policy describes emissions trading and sets out general principles EPA will use to evaluate emissions trudes under the Clean Air Act and applicable federal regulations. Emissions trading includes bubbles, netting, and offsets, as well as banking (storage) of emission reduction credits (EP.Cs) for future use. These alternatives do not alter overall air quality requirements: they give states and industry more flexibility to meet those requirements. EPA endorses emissions trading and encourages its sound use by states and industry to help meet the goals of the Clean Air Act more quickly and inexpensively.

However, EPA also recognizes that without strict accounting practices and other safeguards, emissions trades may cause potential environmental harm. Accordingly, this policy provides more provides more provides more provides accordingly.

explicit guidance on baselines and related tests for environmental equivalence and environmental progress. It includes numerous tightenings and clarifications meant to assure the future environmental integrity of bubbles and other trading transactions.

Among other general steps, the policy states that the lower of actual or allowable emissions must usually be used as the baseline for emissions trades. Divergences from this baseline will be allowed only where the state or applicant shows that any potential increase in actual emissions will not jeopardize National Ambient Air Quality Standards (NAAQS). PSD increments or visibility protection.

General showings to this effect may be made only by establishing that allowable values were clearly incorporated in or assumed by an approved demonstration of attainment or maintenance. Specific showings to this effect may be made only in narrow circumstances described in the accompanying Technical Issues Document.

Other general matters addressed and significantly clarified by this policy include requirements for air quality modeling and approvable state generic bubble rules, additional enforcement safeguards, and additional safeguards related to bubbles involving pollutants listed, regulated or proposed to be regulated under Section 112 of the Act.

This policy also sets forth new, tighter requirements for bubbles in primary nonattainment areas which require but lack approved demonstrations that national ambient standards for healthy . air will be attained. In addition to ...

allowable-or-RACT-allowable emissions baselines in these areas, use of past shutdowns, curtailments or other reductions which occurred before application for credit is essentially eliminated, and a further reduction of at least 20 percent beyond the baseline is required. Broadly speaking, sources may secure bubble credit in these areas only if claimed reductions meet these baseline and further reduction requirements; were reasonably, objectively elicited by the opportunity to trade: and are accompanied by state assurances that the trade is consistent with the state's efforts to attain the ambient air quality standard. EPA will approve bubbles which meet these requirements because they are consistent with the attainment needs of these ereas and will yield a net air quality benefit. Such bubbles can produce economic savings and environmental improvement at the same

The policy announced today does not constitute final action of the Agency within the meaning of section 307(b) of the Clean Air Act, and therefore is not judicially reviewable. Rather, it establishes general guidance on approvable voluntary trades. EPA will implement this guidance in later rulemaking actions that will be judically reviewable. Applicants for emissions trades remain free, following publication of today's notice, to advance the appropriateness of different trading requirements in the context of rulemaking actions on their individual

EFFECTIVE DATE: This Policy Statement is effective December 4, 1988.

FOR FURTHER INFORMATION CONTACT: Inquiries regarding the general implementation of this policy may be directed to: Barry Gilbert, Office of Air Quality Planning and Standards (MD– 15), Research Triangle Park, NC 27711. (919) 541–5516.

Inquiries regarding specific applications to use this policy may be directed to the appropriate EPA Regional Office (see Appendix A of the Technical Issues Document)

Inquiries regarding the development and basis of this policy may be directed to: Barry Elman, Regulatory Reform Staff (PM-223), U.S. Environmental Protection Agency, 401 M Street SW., Washington, DC 20460, (202) 382-2727

SUPPLEMENTARY INFORMATION: Under Executive Order 12291. EPA must judge whether this action is "major" and therefore subject to the requirement of a Regulatory Impact Analysis. This action is not major because it establishes policies, as opposed to regulations, and can substantially reduce the costs of complying with the Clean Air Act

This Policy Statement was submitted to the Office of Management and Budget for review. Any comments from OMB to EPA are available for public inspection in Docket G-81-2. Pursuant to U.S.C. 605(b), I hereby certify that this action will not have a significant economic impact on a substantial number of small entities. As a policy designed to allow firms flexibility to meet previously established regulatory requirements, it will impose no burdens on either small or large entities.

The contents of today's preamble are indicated in the following outline. The outline is followed by the preamble itself, and then by the Policy Statement and accompanying Technical Issues Document.

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PREAMBLE—EMISSIONS TRADING POLICY STATEMENT

1. Introduction

Today's policy makes final the Agency's prior guidance on general principles for creating, storing (banking) and using emission reduction credits in trading actions under the Clean Air Act. This preamble responds to written comments EPA received on major issues raised by its proposed emissions trading policy statement (47 FR 15076, April 7, 1982) and subsequent request for further comment (48 PY 39580, August 31, 1983). It also explains the Agency's principal decisions on these issues.

Today's notice is the primary source of EPA guidance on existing-source bubbles, state generic bubble rules, and emission reduction banking. It replaces the original bubble policy (44 FR 71779, December 11, 1979) as well as the proposed emissions trading policy statement, which was effective April 7, 1982 as interim guidance. The notice addresses how emission reduction credits (ERCs)—the currency of trading-may be used for bubbles, as well as for netting or offsets. Netting and offsets are part of emissions trading. but are governed by EPA and state regulations for new source review.1

Nothing in today's notice alters EPA new source review requirements or exempts owners or operators of stationary sources from compliance with applicable preconstruction permit regulations in accord with 40 CFR 51.18, 51.24, 51.307, 52.21, 52.24, 52.27 and 52.28. Interested parties should, however, be aware that bubble trades are not subject to preconstruction review or regulations

¹ See. e.g., 40 CFR 51.18, 51.24, 51.307, 52.21, 52.24, 52.27 and 52.38.

where these trades do not involve construction, reconstruction, or modification or a source within the meaning of those terms in the regulations listed above.

The policy announced today does not constitute final action of the Agency within the meaning of section 307(b) of the Clean Air Act, and therefore is not judicially reviewable. Rather, it establishes general guidance for reviewing and approving voluntarily submitted trades. EPA will implement this guidance in later rulemaking actions that will be judicially reviewable. Applicants for emissions trades remain free, following publication of today's notice, to advance the appropriateness of different trading requirements in the context of rulemaking actions on their individual trades.

Under today's notice, EPA continues to authorize use of bubbles, banks, and generic bubble rules in all areas of the country, and provides for the fair and prompt processing of bubble applications which have been pending before EPA under the 1982 policy. However, based on experience under the 1982 policy, and in order to ensure the environmental integrity of future emissions trades, today's notice significantly tightens requirements applicable to certain trading actions, particularly existing-source bubbles in primary nonattainment areas which require but lack demonstrations of attainment. It also clarifies approval criteria in ways which should make review and approval of environmentally-sound trades more rapid and predictable. Among other safeguards or safeguarding clarifications, it requires that:

- Bubbles may no longer result in any increase in applicable net baseline emissions in any area, whether attainment or nonattainment, except under stringent conditions which assure that ambient equivalence will nevertheless be achieved;²
- Baselines for sources participating in a bubble in any area must take into account all three factors relevant to total emissions (i.e., emission rate, capacity utilization, and hours of operation) in order to provide an accurate accounting of emissions before and after the trade;

On November 7, 1986. EPA restructured CFR Part 51 and renumbered many of that Part's sections (51 FR 40656). Because most readers will be more familiar with prior designations, today's notice contains citations based on the organization of Part 51 as it existed before this restructuring. Interested parties may use Appendix F of today's Technical Issues Document to convert today's Part 51 citations to the corresponding new ones.

² This change constitutes a significantly more stringent definition of what may be considered a bubble under the Emissions Trading Policy, Specific ambient tests which must be met to qualify for an exception from this restriction can be found in the Technical Issues Document, Section I.B.1.c Actions which may no longer be treated as bubbles under today's notice must be processed under general EPA criteria applicable to SIP revisions.

· Bubbles in primary nonattainment areas needing but lacking approved demonstrations of attainment must use the lowest-of-actual-SIP-allowable-or-RACT-allowable emissions baseline, as described below, for each source

involved in the trade:

 Bubbles in primary nonattainment areas needing but lacking approved demonstrations must contribute to progress toward attainment by providing a 20% net reduction in emissions remaining after application of the baseline above to all sources involved in the trade or, if the bubble is being processed under a state generic rule, the greater of a 20% net reduction or the percent reduction which would be required from all controllable stationary sources in that area (e.g., taking into account expected mobile source reductions and disregarding area-source contributions] in order to achieve attainment;

· Bubbles in attainment areas and nonattainment areas with approved demonstrations must use the lower of actual or allowable values for each of the three baseline components, unless allowable values higher than corresponding actual values are clearly used or reflected in the demonstration or otherwise shown not to jeopardize ambient standards, PSD increments or

visibility;

 In all areas, emission reductions must be made state-enforceable in order to qualify as ERCs and be deposited in

an EPA-approvable bank;

 In all areas, bubbles must meet more stringent tests for ambient equivalence, including additional ambient significance levels, more protective air quality modeling requirements, and more conservative definitions of de minimis trades;

 In all areas, the total of any incidental emissions of hazardous or potentially hazardous air pollutants associated with a criteria pollutant in a bubble trade must remain equal or be decreased, whether such hazardous. pollutants have been regulated, proposed for regulation, listed, or the subject of a notice-of-intent-to-list under

Clean Air Act 112:

 States must provide assurances to EPA that bubbles submitted for EPA approval in primary nonattainment areas needing but lacking approved demonstrations are consistent with the state's SIP-planning and attainment : objectives. For generic rules, the state must make certain assurances in conjunction with its submittal of the generic sule to EPA, and certain additional assurances with the state's proposed and final approval of each individual bubble under that mile;

 Bubbles in such primary nonattainment areas may not use credit from reductions made before application to bank or trade such credit;

· Where sources in such areas seek to bank credits in the future, "application to bank," for purposes of evaluating credits for use in bubbles, means the time of filing an application to make the proposed credits state-enforceable through or concurrent with use of a formal or informal banking mechanism;

· Bubbles must not impede compliance or enforcement (e.g., the policy states that compliance extensions may no longer be granted under generic rules in any nonattainment area, and that bubble applications do not per se suspend underlying SIP limits or defer source obligations to achieve those limits):

 Generic rules in all areas will be subject to increased EPA oversight. including EPA participation in the state's public notice and comment process prior to state approval of individual bubbles, subsequent reviews of individual generic approvals, and reviews of the general implementation of the rules themselves, in order to assure that approved rules are being properly implemented; and

 EPA or state notices of proposed and finai bubble approvals, in all areas, must clearly indicate any changes in actual as well as allowable emissions at all sources involved in the bubble, so the ambient effects of these trades may be known.

These and other changes announced today will generally be applied to all SIP revision bubbles and state generic bubble rules that have not been approved by EPA as of this date.3

On June 25, 1984 the Supreme Court unanimously ruled that EPA may allow states to use a single, plantwide definition of "stationary source" for new source review (NSR) purposes in nonattainment areas as well as attainment areas, provided use of that definition would not interfere with attainment and maintenance of national ambient air quality standards (NAAQS).4 Under the "plantwide" definition, increases and decreases occurring anywhere on plant property from emission units within the same two-digit SIC code are generally eligible

for netting," and may be used to balance each other without triggering preconstruction permit requirements for major new sources or modifications, so long as actual plantwide emissions would not significantly increase.

States and sources considering the use of netting should, however, be aware that applicable New Source Performance Standards (NSPS). preconstruction review requirements under 40 CFR 51.18 (a)-(h) and (1), NESHAPS, and SIP limits continue to apply to such modifications. EPA is currently developing guidance for states that wish to adopt a plant-wide definition of "source" for nonattainment areas into their new source review regulations.5

Pending or future litigation or rulemaking, particularly final resolution of the settlement agreement arising from the industry challenge to ERA's 1980 promulgation of revised NSR rules (Chemical Manufacturers Association v. EPA. No. 79-1112, D.C. Cir., February 1982), may alter aspects of this policy. especially regarding certain transactions under EPA new source review regulations. See 48 FR 28742 (August 25. 1983) (proposed revisions). However, unless and until EPA finally revises the relevant regulations, the current requirements remain in effect.

II. Major Issues

A. Baselines

The baseline for a given source is that level of emissions below which any additional reductions may be counted (credited) for use in trades. Questions relating to appropriate bubble baselines for particular emitting sources or types of sources in nonattainment areas generated the principal issues resolved by today's notice. EPA's resolutions strengthen SIP integrity and states' ability to make progress toward attainment by (a) identifying more

³ Sec. however, discussion of "pending bubbles" in Section I.G. of today's Policy Statement and Section LA.1.b.(4) of today's Technical Issues

^{*} Chevron U.S.A., Inc. v. Natural Resources Defense Council 104 S. Ct. 2778, 14 ELR 20507. overruling Natural Resources Defense Council, Inc. v. Corsucit, 685 F.2d 718, 12 FLR 20942 (D.C.:Cir.

^{*} SIC Code means codes described in the Standard industrial Classification Manual, 1972. amended 1977 (U.S. Government Printing Office. stock numbers 4101-0066 and 003-005-00176-0. respectively).

^{*}Many states currently employ the so called dual definition of "statutory source," under which both the plant and each emitting piece of equipment within it are "stationary sources," Under this definition, when any individual piece of equipment is large enough in terms of potential emissions to be defined as a "main of potential emissions to be defined as a "major stationary source," only increases and decreases in actual emissions from that individual unit are eligible to "net."

While the plantwide definition provides greater opportunity for neiting in general, neiting is also allowed under the dual definition. Indeed, where no individual piece of emitting equipment is a "major stationary source," the "dual definition" allows the same opportunity to "net" as the "plantwide"

precisely the three factors which must be addressed in calculating baseline emissions; (b) reaffirming that for bubbles in nonattainment areas with demonstrations of attainment that have been approved and not subsequently found by EPA to be substantially inadequate to attain ambient standards, the baseline must be consistent with assumptions used to develop the area's demonstration or must otherwise be shown by appropriate ambient dispersion modeling to protect air quality standards; and (c) specifying a number of special "progress" requirements for bubbles in primary nonattainment areas needing but lacking approved demonstrations of attainment, including stringent new baseline requirements, a ban on the use of reductions produced before application to bank_or trade, and a mandatory extra reduction of at least 20% beyond applicable baseline emissions. Together with tightened criteria for modeled demonstrations of ambient equivalence, a well as other new requirements for bubbles, banks, and generic rules, these resolutions will assure continued environmental progress through trades.

1. Determining Baselines—General Guidance

A source's baseline emissions are calculated by multiplying three factors: the source's emission rate (usually expressed as emissions per quantity of production or throughput); its hours of operations or hourly usage over some representative time period; and its capacity utilization (e.g., the units of production per hour of use).7 All three factors must be addressed, since a source's emissions for a given period may vary widely despite a constant emission rate, depending, for example, on whether it is operated at low capacity for a small number of hours or utilized near full capacity for a large number of hours. The product of this baseline calculation is generally expressed in pounds of emissions per day or tons of emissions per year (TPY), or both.

Today's policy clarifies EPA's original intent regarding appropriate methods for determining these three baseline factors. In general, in nonettainment areas with approved demonstrations, a source's baseline emissions for bubble purposes must be calculated using the lower of it actual emission rate or allowable emission limit, plus the lower of its actual or allowable capacity utilization and hours of operation. That is, baseline

emissions in these areas must generally be calculated using lower of actual or allowable values for all three baseline factors.⁸

Actual values for these factors are based on some representative historical time period (generally the average of the two years preceding the source's application to bank or trade).

However, where the state or applicant shows that the SIP, a source-specific preconstruction permit, or an equivalent document clearly assumes or specifies allowable values which are higher than corresponding actual values for one or more baseline factors, and that document post-dates the baseline inventory year for a SIP's attainment demonstration, these values may replace actual values for calculating the bubble baseline. Where only one value (typically the emission rate) is specified, the other two baseline factors must generally be based on actual levels. 9

Such showings must be based on either data from the SIP or data used in SIP preparation. ¹⁰ Applicants may alternatively perform appropriate modeling to demonstrate that use of allowable values which are higher than actual values will not delay or jeopardize attainment and maintenance of ambient standards, protection of PSD increments, or visibility. Upon either type of showing, these allowable values may be used. ¹¹

Netting and offset transactions are governed by EPA's regulations at 40 CFR 51.18, 51.24, 51.307, 52.21, 52.24, 52.27 and 52.28. Accordingly, this discussion of baseline applies only to bubbles.

See Section I.A.1 and Appendix B of today's Technical Issues Document for further details on baseline calculation.

10 This could include documentation such as the demonstration calculations themselves, accompanying materials, or affidavits from those who constructed the demonstration.

11 Use of such higher allowable values which must be justified by modeling because they are not shown to be clearly reflected in or assumed by the demonstration or an equivalent document, would require such bubbles in nonattainment areas with approved demonstrations to be processed as SIP revisions, since Level III modeling would be required for their justification under today's modeling screen. In addition, the SIP's reasonable further progress (RFP) calculations would generally have to be revised.

The principal difference between use of such higher allowable values in these nonattainment areas and in attainment areas is that in attainment areas, ambient evaluations more limited than Level III modeling may justify use of such allowable values. However, for bubbles processed as case-by-case SIP revisions in attainment areas, the Region retains discretion to require additional technical support, where limited air quality dispersion modeling is proposed to justify use of such allowable baseline values. See Section I.A.1.a. of today's Technical Issues Document.

All bubbles in attainment areas relying on allowable values not used or reflected in an approved demonstration must be evaluated for ambient impact based on a comparison of beforeThis approach is required because control of existing sources through approved SIP measures is the Clean Air Act's principal mechanism for timely attainment, and because many approved demonstrations either do not contain stated assumptions regarding all three baseline factors, or were based on combinations of actual and allowable values for these factors. It recognizes that bubble baselines must accurately reflect the SIP assumptions for all three baseline factors in order to maintain SIP integrity.

Under this approach, determination of bubble baselines consistent with approved demonstrations is a sequential, tiered process. That process was implicit in both EPA's 1982 policy and its 1983 request for further comment, as well as actual practice in bubble actions under those notices. EPA is making it explicit in response to concerns that "paper trades" might undermine attainment demonstrations because approved SIPs do not always state all assumptions on which their demonstrations rely. By requiring that unstated or ambiguous values for all baseline factors be resolved in favor of lower actual values, today's notice provides additional assurance that bubbles in nonattainment areas with approved demonstrations will not threaten ambient standards, PSD increments, or visability protection.

2. Comments on Baselines in Nonattainment Areas With Approved Demonstrations of Attainment

Comments on baselines in these areas indicated wide disagreement over where EPA require states to set this baseline level. The 1982 policy noted that "In nonattainment areas with approved demonstrations of attainment, the baseline must be consistent with assumptions used to develop the area's SIP." That policy generally required that where approved SIP demonstrations relied on actual emission levels at . particular sources, those actual levels would have to be reflected in bubble baselines. Where SIP demonstrations were based on allowable emissions, the 1982 policy authorized baselines reflecting such allowable levels, despite the fact that some sources' actual emissions are currently or historically lower than their "allowables." 12

For detailed discussion of baseline emissions and baseline factors, see Technical Issues Document, Appendix B.

trade actual emissions and post-trade allowable emissions (i.e., the "worst case"), in order to assure that any potential increase in actual emissions are identified and that their effects are consistent with applicable Clean Air Act requirements. See today's Technical Issues Document, Section I.A.1.a.

¹² See n. 13 below. -

The great majority of commenters supported this SIP foundation for trading baselines, noting that SIPs are the cornerstone of the Act's approach to air quality management. These commenters also asserted that regardless of sources' actual emissions, measuring reductions from allowable levels assumed in a valid SIP demonstration was entirely appropriate for use in trading, since the area would still attain ambient standards in a timely manner. See, e.g., 48 FR 39582 (August 31, 1983).

However, other commenters asserted this approach was either "too loose" or "too tight." The first group stated that credit should only be granted for reductions below current actual emissions, provided actual emissions met applicable SIP limits. They advanced various reasons for this position, including assertions that reliance on past reductions, while consistent with approved plans for attainment, might not comport with "broader" clean air goals. Some felt that SIPs were insufficently precise to serve as a basis for trading.

A second group of comments went in the opposite direction, asserting that baselines should always be maximum allowable source emissions, regardless of assumptions used in SIP development. These commenters noted that emission rates (e.g., emissions per volume of throughput or unit of production) specified in SIP emission limits are generally the only enforceable limits applicable to existing sources. Since existing sources can legally emit up to annual levels equivalent to maximum output and round-the-clock operations so long as they meet these SIP emission-rate limitations, these commenters reasoned, companies should receive credit for agreeing to binding limits on output or hours of operations which forgo such production flexibility,

Today's notice responds in two principal ways to these concerns. First, it clarifies the components of baselines, how these are to be determined, and who bears the burden of demonstrating that a proposed baseline is consistent with a particular SIP. Several comments indicated that confusion related to the determination of baselines may have generated unnecessary concern over use of allowables baselines under approved SIPs. Second, it reiterates and further supports EPA's position that where SIP

demonstrations are approved as adequate, the Clean Air Act simply requires trading to be consistent with assumptions used to develop the area's SIP.

3. EPA's Resolutions on Baselines in Nonattainment Areas With Approved Demonstrations of Attainment

Where a state has demonstrated it will attain an ambient standard, and EPA has approved the demonstration and not subsequently found it substantially inadequate to assure attainment, bubbles relying on baseline levels used or reflected in that demonstration amount to routine SIP revisions. The state then has discretion to maintain its demonstration through any alternative combination of emission reductions, so long as these are adequate for attainment and maintenance of the ambient standards. Since EPA cannot require states to do more than demonstrate timely attainment and maintain ambient standards, EPA will approve such trades as long as they are enforceable and do not undermine the demonstration. See, e.g., Train v. NRDC, 421 U.S. 60, 79-80 (1975); Union Electric Co. v. EPA, 427 U.S. 246 (1976). This means that credits must not be doubled-counted, that they must be calculated from a baseline consistent with the approved demonstration, and that tests of air quality equivalence to the original SIP emission limits must be met.

In short, under the Clean Air Act an approved attainment demonstration creates a legal and logical boundary. The state has met its statutory responsibility and can substitute reductions not relied on in the SIP for those assumed by the SIP, so long as air quality impacts are equivalent. This holds true for all types of emission reductions—whether derived from process changes, extra pollution control equipment, improved operating or maintenance procedures, or other actions—as long as the substitute reductions have not been relied on in the approved SIP.14

EPA accordingly reaffirms the general principle that states may grant sources credit for reductions below levels assumed by approved demonstrations. This generally means that where actual values for emission rate, capacity

utilization and hours of operation form the basis for an approved demonstration, sources proposing a bubble must use the lower of actual or allowable values for those factors in calculating baseline emissions, and that where an approved demonstration was based on allowable values which are higher than corresponding actual values for any of these baseline factors, those allowable values may be used for such factors in calculating the baseline.

B. Baseline and Other Requirements for Bubbles in Primary Nonattainment Areas Which Require But Lack Approved Demonstrations of Attainment

EPA's 1982 policy proposed two baseline mechanisms for bubbles in primary nonattainment areas needing but lacking approved demonstrations of attainment. These areas needed additional emission reductions to attain national ambient health standards, but had not yet fully determined what amount of reductions would be necessary for attainment or which sources would be required to produce them. Nevertheless, that policy said. states could allow existing sources in these areas to trade on an interim basis. either (1) by using baselines reflecting Reasonably Available Control Technology (RACT) provisions which EPA had already approved, or (2) where EPA had not yet approved general state RACT provisions, by using "negotiated RACT' baselines agreed to between the source, the state and EPA.15 Both the 1982 policy and subsequent notices advanced detailed programmatic and environmental rationales for this approach, including the fact that RACT was the Act's most stringent general requirement for existing sources in nonattainment areas; that appropriately determined RACT baselines were consistent with current attainment needs; and that trades using such baselines could produce faster interim progress by providing incentives for sources voluntarily to define RACT. disclose better emissions or ambient data, or take other steps to do more than the minimum required. See, e.g., 47 FR 15076, 15080-81; 48 FR 39582-83, 39585.

Many commenters on the 1982 policy approved this "negotiated RACT"

¹³ The 1982 policy assumed, but did not specify, the components of "actual" emissions, such as capacity usage or number of hours of operation of a particular source. It also assumed, but did not expressly require, that actual emission levels must be reduced to compliance levels before further reductions were eligible for credit.

suspect, but has not formally indicated, that a previously approved SIP demonstration is no longer adequate to assure timely attainment. For reasons of policy continuity, regulatory predictability and fair notice, until EPA makes a formal finding of SIP inadequacy, the approved demonstration controls. See Clean Air Act section 110(a)(2)(H), 110(c)(1): 48 FR 33582 (August 31, 1983).

tis The 1962 policy also authorized limited use of higher actual (rather than RACT-allowable) baselines in certain nonattainment "extension" areas which did not then have complete approved SIPs. See 47 FR 15077, 15080 (April 7, 1982). Expiration of the July 1962 statutory deadline for submitting such SIPs Vitiated this third baseline option. See, e.g., 49 FR at 39580 and n.7, 39584-85 (August 31, 1983)

approach; finding it innovative and acceptable. However, two groups of commenters again asserted that it was either "too restrictive" or "insufficiently constrained." The first group maintained that for reasons of administrative efficiency, bubbles should be based either on existing SIP reduction requirements or on actual emissions, without the need to negotiate new source-specific RACT baselines. Since trading sources in these areas would eventually be subject to RACT requirements in any case, they reasoned, no new interim baseline should be required. In partial support of this position some alluded to the one instance in which Congress has explicitly addressed such baseline issues—its 1977 declaration that in nonattainment areas without adequate demonstrations, existing SIP limits would for the next several years be the baseline for offset transactions, which were then the only types of emissions trades.16

The second group asserted that no bubbles should be allowed in such areas, since regulators could not know which reductions were surplus until demonstrations were completed and approved.

In August 1983, "in light of formal comments on the [1982] Policy, the NRDC v. Gorsuch decision [since reversed] . . . and the need to further articulate the Policy's approach in this area," EPA requested further comment on certain issues relating to credit from plant shutdowns or production curtailments for use in existing-source bubbles, particularly bubbles in primary nonattainment areas requiring but lacking demonstrations. 48 FR 39580. While most comments on the 1982 policy supported continued use of such credits without further restrictions, some commenters had special concerns about shutdowns in these areas. These commenters stated that shutdowns can hasten attainment, and suggested that granting credit for shutdowns that 'might have happened anyway' might not be consistent with the Act's requirement for attainment "as expeditiously as practicable."

In the August 1983 notice EPA addressed these concerns in detail, noting that:

. Unlike surplus reductions from additional pollution control or less-polluting process changes, shutdowns produce a total reduction of emissions, 100% of which might benefit air quality if credit were not allowed. Granting full or partial credit for their use in existing-source bubbles might reduce that benefit. . . at least where the source would have shut down anyway. This reasoning [reflecting a desire to avoid granting credit for reductions that may not be "surplus" because they would have occurred in any event] underlies some commenters' suggestions that credit be allowed only if credit were a sole or principal reason for the shutdown . .

Unfortunately the issue is not this simple. So long as it has not been double-counted and a proper RACT baseline is applied, the shutdown does contribute to air quality progress, since much less than 100% credit will be granted. Moreover, the opportunity for credit may improve air quality by encouraging early shutdown of high-polluting facilities that might otherwise be kept running, either because replacement is too expensive or to preserve credit for further

plant expansion.
In addition, these commenters' suggestion of a test based on subjective motive appears_ administratively unworkable. EPA and states would find it exceedingly difficult to evaluate or rebut source evidence that a shutdown was motivated by credit and that the shutdown facility would otherwise have operated [, e.g.,] for twenty or forty years. Thus this approach would likely result in either de facto approval of all such credits (undermining the reason for the test), or a burden of proof so stringent that none would be approved (penalizing sources whose shutdowns were elicited by trading). More straightforward approaches might either ban shutdown bubbles until a demonstration of attainment, or acknowledge their uncertain nature by applying a margin of safety-e.g., a requirement that such bubbles produce substantial air quality improvementsufficient to compensate for any uncertainties and protect the integrity of current or future SIPs. 48 FR at 39583-84 (footnotes omitted.)

EPA then suggested seven specific alternatives to the 1982 policy for bubbles in these areas, including: a prohibition on bubble credit from shutdowns; a requirement of substantial . air quality benefit from bubbles proposing to use shutdown credit; or a requirement of substantial air quality benefit from all bubbles, with no special restrictions on shutdown credit. In partial support of this last proposedalternative, EPA indicated the administrative benefits of avoiding special definition or treatment of "shutdowns" and "curtailments," and stated that: -11-

 Requiring substantial progress from each bubble . . . could accelerate momentum toward attainment, directly improve air

quality through each trade, and provide an objective margin of safety against uncertainties associated with some individual shutdowns, while leaving to the state the task of final SIP development. It would also maintain the incentive within the [1982] Policy for industry to shut down highpolluting, economically-marginal sources The more each existing-source bubble contributes directly to accelerated air quality progress, the stronger the justification for use of surplus reductions for such bubbles in the absence of a demonstration. Moreover, requiring all bubbles to produce a substantial air quality improvement, beyond RACT baselines and RACT equivalence, could provide a margin of safety sufficient to make special treatment of shutdowns unnecessary . . . 48 FR at 39585-86 (footnotes omitted).

Thus, while the issue explicitly raised by the August 1983 notice was use of bubble credit from shutdowns in primary nonattainment areas which lack approved demonstrations, the underlying issue was use of any type of bubble credit in these areas. Since emission reductions have the same effect on air quality whether produced by less-polluting process changes, more efficient operation of installed control equipment, additional pollution controls, or shutdowns or production curtailments, the fundamental question was whether all such reductions or none of them should be prohibited or subject to special requirements when used for bubbles in these areas. That question reflected a further choice. Should EPA defer bubbles in these areas until a compete demonstration was finally approved? Or should EPA authorize continued use of bubbles; in order to secure interim emission reductions?

Comments responding to the August 1983 notice were essentially the same as earlier ones. A large majority of industries and state pollution control agencies commenting at that time supported continued opportunity for bubbles (including those using credit from shutdowns) in nonattainment areas with or without approved demonstrations. Virtually all industries and states commenting with respect to areas that have approved demonstrations supported continued use of the 1982 policy, without change. 17 Of 13 state agencies commenting with respect to areas that do not have approved demonstrations, ten urged that shutdown credits be retained for these

¹⁶ See, e.g., Clean Air Act Amendments of 1977, section 129, codified at 42 U.S.C. 7502 note: 3 Legislative History of the Clean Air Act Amendments of 1977, pp. 537, 713; 44 FR 2174-75 [January 16, 1979]. This Congressional mandate was largely superseded by eventual state adoption of supervening SIP limits. Under current EPA regulations such SIP allowable emission rates may ordinarily be used to compute the baseline for offsets only where an approved SIP demonstration used inventoried allowable emissions in its demonstration of reasonable further progress. See Clean Air Act 173(1)(A), 42 U.S.C. 7503(1)(A).

¹⁷ E.g., Allegheny County (PA) Health Department. Bureau of Air Pollution Control: Air Pollution Control District of Jefferson County (Louisville), KY. Cf. Dayton (OH) Regional Air Pollution Control Agency. See also, e.g., comments of Chevron USA.

areas as well. 13 However, many . comments also supported or acknowledged the appropriateness of a requirement for a net air quality benefit—in the range of 20% extra reductions in emissions remaining beyond a baseline reflecting RACT emission limits—from each bubble, so long as that requirement was objective and easily administered. 19 To the extent they addressed this issue, these comments generally opposed efforts to test bubbles by examining the subjective motives underlying reductions. 20 Two state of local agencies asked that bubbles be prohibited in these areas until complete demonstrations were approved by EPA.

Several commenting environmental groups asserted that EPA should not permit any bubbles in nonattainment areas lacking adequate demonstrations. One argued that EPA cannot determine that emission reductions are "surplus," and therefore creditable, in these areas: because to do so would violate the statutory requirement to attain standards "as expeditiously as practicable." Moreover, this group claimed, using RACT as a baseline would not solve this problem because RACT limits are minimum measures, not a substitute for a SIP providing timely attainment. This group also asserted that crediting shutdowns would conflict with states' duty to meet air quality standards "as expeditiously as practicable" because, by "resurrecting" emissions that have already ceased, it would accomplish less emission reduction than is practicable within a given period of time. Another group asserted that allowing shutdown credits in these areas would strain efforts to progress toward attainment. One environmental group went a step further and urged that opportunity for bubbles be restricted solely to attainment areas which have already met national air quality standards.21

16 E.g., Memphis Health Department; Colorado Dept. of Health, Air Pollution Control Division, Cf. comments of Illinois EPA.

At the same time, comments filed on Federal Register proposals to approve individual bubbles as SIP revisions under the 1982 policy 22 raised related issues. Several of these proposed bubbles were also located in primary nonattainment areas which required but lacked approved demonstrations. The issue raised related to bubbles of two types: (1) Those which relied on reductions from shutdowns that occurred long before any application to bank or trade; and (2) those which relied on extra reductions produced by routine installation of required control equipment, long before application to bank or trade. Both types of bubbles raised the larger question of whether SIP integrity and environmental progress might better be assured in primary nonattainment areas which require but lack approved demonstrations of attainment by allowing no bubble credit. or allowing bubble credit only for reductions beyond actual emission levels already achieved as of the time sources applied to bank or trade.

The final policy strikes what EPA believes to be a reasonable, environmentally-sound balance between all these views, and establishes numerous tightening clarifications and new requirements to implement that balance. These changes and the rationales supporting them are set forth

1. EPA's Resolutions Regarding Baseline and Other Requirements

In primary nonattainment areas which require but do not, at the time of a bubble application, have EPA-approved demonstrations that ambient health standards will be attained, bubbles will generally be approved if they do not rely on reductions which occurred before application for credit; if they meet other criteria for baselines, ambient equivalence, and consistency with future planning efforts; and if they produce at least a 20% net reduction in emissions remaining after appropriate baselines have been applied. These objective tests both respond to previous comments on certain individual bubble applications, and go substantially beyond alternatives discussed in EPA's August 1983 notice. At the same time they assure greater predictability and

ambient progress, without imposing so heavy a burden on voluntary bubble transactions that the environmental benefits of such trades are forgone. They reflect the general principle that because such properly-structured bubbles provide continuing incentives for sources to deliberately overshoot regulatory marks (rather than plan merely to meet them), bubble trades in these areas can produce interim progress beyond current SIP requirements, and should be approved.

 a. Specific "Progress" Requirements. Applications for existing-source bubbles in primary nonattainment areas which require but lack approved demonstrations of attainment will be deemed to produce a net air quality benefit and will be processed for approval if they:

(i) Use "lowest-of-actual-SIPallowable-or-RACT-allowable" emissions baselines. Such baselines must be calculated using

· Either the actual emission rate, the SIP or other federally enforceable emission limit, or a RACT emission limit, whichever is lowest, for each source involved in the trade. This baseline factor shall be determined as of the time of the source's application to bank or trade, whichever is earlier.

 The lower of actual or allowable capacity utilitization and hours of operation for each source involved in the trade. These baseline factors shall generally be based on the two years of operation preceding the application to bank or trade, unless another two year period is shown to be more representative of normal source operations;

(ii) Meet the general ambient equivalence tests outlined in today's policy (see Section LB.1.b of the Technical Issues Document) using the baselines described above and, for the post-bubble case, emission levels that reflect overall emissions equivalence: and

(iii) Produce a substantial net reduction in actual emissions-i.e., a reduction of at least 20% in the emissions remaining after application of the stringent new baselines described above. (A reduction of greater than 20% may be required for bubbles approved under generic rules in some of these nonattainment areas. See discussion in Section III.A.1.(d) of this Preamble,

With respect to sources which seek to bank emission reductions after publication of today's notice. 'application to bank;" for purpose of evaluating credit for use in bubbles. means the time of filing of an

Many industrial commenters also asserted the importance of continuing to allow shutdown credits in these nonattainment areas. See, e.g., Chevron USA: Champlin Petroleum.

[&]quot;E.g., Bay Area (CA) Air Quality Management District. See also Southern California Gas Co.

Eg., Massachusetts Department of Environmental Quality Engineering: South Coast (CA) Air Quality Management District

²¹ In oral or written submissions to the Administrator made in early 1906 while final decisions on today's policy were still pending. representatives of seven states and the State and Territorial Air Pollution Program Administrators and the Association of Local Air Pollution Control Officers (STAPPA/ALAPCO) similarly urged that . bubbles no longer be authorized in primary nonattainment areas until a complete attainment

demonstration was submitted or approved. This position was generally echoed by a coalition of environmental groups. Since this position and related underlying issues had been raised and articulated at length by earlier comments, it is addressed as part of the Agency's final response

²⁰ C.L. e.g., Union Carbide Corp. (Texas City), 47 FR 21533 (May 19, 1982); B.F. Goodrich (Avon Lake). 49 FR 4796 (February & 1964).

application to make such reductions state-enforceable through or concurrent with use of a formal or informal banking mechanism. However, in order to avoid needless disruption and inequitable retroactivity, this definition does not apply to reductions which sources have previously applied to bank. See Section I.A.1.b.(1) of the Technical Issues Document.

b. Additional "Progress" Requirement: State Assurances. In concluding that properly-structured bubbles as defined above can produce valuable interim progress in primary nonattainment areas which require but lack approved demonstrations, EPA also considered whether other showings might be necessary to assure that individual bubbles do produce such progress. The Agency has concluded that few such showings, whether bubble-related or otherwise, are practicable or workable. It did, however, conclude that certain representations meant to assure each bubble's consistency with SIP planning goals, by requiring states to take a meaningful look at such consistency in each bubble approval, would help assure that progress is achieved.

Under circumstances detailed in the final Policy and Technical Issues Document, today's notice therefore requires the appropriate state authority to provide the following written assurances to accompany each bubble which is approved (either directly by EPA as a case-by-case SIP revision, or by states under an EPA-approved generic rule) in these areas:

1. The resulting emission limits are consistent with EPA requirements for ambient air quality progress, as specified in today's notice.

2. The bubble emission limits will be included in any new SIP and associated control strategy demonstration.

3. The bubble will not constrain the state or local agency's ability to obtain any traditional emission reductions needed to expeditiously attain and maintain ambient air quality standards.

4. The state or local agency is making reasonable efforts to develop a complete approval SIP and intends to adhere to the schedule for such development (including dates for completion of emissions inventory and subsequent increments of progress) stated in the letter accompanying the bubble approval or in previous such letters.

5. The baseline used to calculate the bubble emission limits is consistent with the baseline requirements in the Emissions Trading Policy Statement and Technical Issues Document.

Such assurances need not be verified by, e.g., detailed quantifications,

comparison with year-by-year progress projections, or showings that all reductions needed for area-wide progress or attainment have been identified and targeted for regulation. They are, however, expected to be based upon meaningful review by the state and to be consistent with the documentation supporting the bubble. EPA will not second-guess such state representations, provided they are a substantial test applied by the state to each bubble and the state has explained how the proposed bubble is consistent with the area's projected attainment strategy. Nor will EPA examine, or expect states to examine in making such representations, any specific source's subjective motivation in making claimed reductions. The combined effect of these requirements will be (a) to deny bubble credit for reductions which occurred before application for credit, in recognition of the fact that reductions produced before any application to bank or trade are unlikely to have been elicited in any way whatsoever by the opportunity to trade; (b) to help assure that only actual reductions in current emissions are relied upon to satisfy pending control requirements in these areas; (c) to more systematically encourage efforts by sources to produce and permanently maintain these additional reductions, by granting them predictable bubble credit where specified baseline and other tests have been applied; and (d) to assure that these bubbles will not interfere with these areas' attainment efforts. Any other approach would enmesh EPA and state agencies in lengthy, resourceintensive, and uncertain efforts to determine subjective company motives for making particular claimed reductions—efforts which appear unlikely to provide greater environmental protection than the criteria articulated here. Cf. e.g., 48 FR at 39584 and n. 15, 39585-86,

2. Basic Rationale

EPA believes that Congress would clearly have intended the Agency to approve bubbles that, despite the lack of a complete attainment demonstration : for the affected areas, nevertheless produce progress toward attainment in those areas. Section 172(b) of the Clean Air Act does require states to formulate complete control strategies to attain the standards in these areas as expeditiously as practicable and, in the case of primary standards, by certain fixed dates. It also requires these areas to demonstrate reasonable further progress toward attainment in the interim. However, SIPs and attainment demonstrations are composed of dozens,

if not hundreds, of regulations and commitments adopted at the state or local level, following proceedings that often are time-consuming and overlap in sequence. If EPA were to wait until every such provision were adopted and submitted by the state before acting on any of them, substantial environmental benefits that would otherwise accrue from having each available requirement promptly incorporated in a bindingmanner into the SIP and made federally enforceable would be forgone. Such an "all or nothing" approach would produce less expeditious progress toward attainment than a combination of (a) EPA approvals of state provisions submitted sequentially and (b) appropriate use of sanctions authorized by the statute to effect the adoption and submittal of remaining necessary provisions. Given the strong emphases in the statute as enacted, it is doubtful that Congress would have intended the former, less progressive approach.23

For these reasons, EPA has decided to approve in these areas bubbles which individually produce progress, both beyond preexisting plan requirements and in the air itself, and which do not interfere with these areas' efforts to construct complete strategies that provide for attainment as expeditiously as practicable.

Today's notice accordingly disallows use in bubbles of reductions made prior to any application to bank or trade, but allows appropriate use of reductions made after such application. Where a source voluntarily proposes to make creditable reductions as part of and following a banking or trading application, the stringent lowest-ofactual-SIP-allowable-or-RACTallowable baselines must be applied if a bubble is involved, and that bubble must meet appropriate ambient tests. using emission levels that produce overall equivalence to the emissions baseline. The "net 20%" discount in remaining emissions then applies to all sources in the bubble, and provides an additional safety margin to assure ambient progress from bubbles in these areas.24 Finally, the state assurances

Continued

⁴³ See, e.g., Chevron USA v. NRDC, supra n. 4.

44 This "net 20%" requirement is also supported by evidence indicating that for most extension area SIPs addressing ozone pollution—the most widespread remaining nonattainment health problem—a net 85% reduction (81% RACT + 20% of remaining VOC emissions) appears sufficient to produce ambient attainment, if those areas could secture such reductions from all controllable stationary sources of VOC emissions which remain after implementation of stringent controls already in place. See, e.g., "0, Attainment Status of 33 Areas Under Different Degrees of Stationary Source

will indicate whether approval of the bubble is likely to remove rather than enhance any important opportunities to construct complete attainment strategies.

EPA believes that bubbles meeting the special progress requirements described above will produce both progress beyond preexisting plan requirements and progress in the air. First, with respect to preexisting plan requirements, each bubble would achieve a net tightening of at least 20 percent. Trades that result in a permanent 20 percent reduction beyond actual emission levels (which ere already below what the plan allows). would produce even greater progress beyond preexisting requirements. Moreover, state assurances that must accompany each bubble will help ensure that approval does not represent a step backward in the process of developing a plan providing for timely attainment.

Each such bubble would also produce net progress in the air, since each increment of required control forgone as a result of the trade would be more than compensated by a greater reduction which was not required, and which may reasonably be presumed to have been elicited by the trading opportunity. Neither EPA nor anyone else can prove that all reductions which occur after filing of an application for credit were elicited in whole or in part by the trading opportunity. Decisions in the real world, whether corporate or otherwise, always arise from multiple motives which are not easily disentangled, any strand of which may have "tipped" the balance toward or precipitated a particular action. However, the Agency has concluded that this presumption is reasonable. First, it is plausible that such reductions were elicited at least in part by that opportunity, especially where, as here, sources must affirmatively decide to surrender something of value and constrain purely private decisionmaking (e.g., enforceably commit to change production processes) in order to create a cognizable reduction. Second, this presumption is the sole practical alternative to the administratively difficult and uncertain approach of attempting to determine the intent and motives of source owners making these reductions.

EPA has also concluded that bubbles meeting these new requirements will not interfere with the statutory mandate that

Control" (Feb. 1984)): Letter, Richard A. Liroff, The Conservation Foundation, to Hon. Lee M. Thomas, March 12, 1968 ("The trial calculation... indicates the staff's attentiveness to the limited control possibilities available, and appears to support their conclusion about the contribution SACT plus 20 person can make to attainment."

states attain standards as expeditiously as practicable. Each such bubble would produce progress in the air that, for the reasons just described, would likely not have been achieved absent the trading opportunity.²⁵

3. Additional Considerations Regarding the Benefits of Bubbles

Individual bubbles approved under today's special progress requirements for primary nonattainment areas which lack demonstrations will produce progress in the SIP and in the air. Moreover, the mere existence of the opportunity to trade has independent progressive effects.

As some commenters suggested, lack of such demonstrations usually results from one of two general causes: Either the state does not know where or how to obtain sufficient further emission reductions, or it has identified sources of such reductions but is unable to implement new regulatory requirements because of their cost. Moreover, regulated firms may often be reluctant to disclose information that may be used to require further retrofits against them. Even where such information is obtained, it may not be sufficiently precise to allow EPA and the state to resolve remaining ambient problems. While a vigorous regulatory response remains critical in these areas, that response is likely to be hampered by the very information barriers that discouraged a demonstration of attainment in the first place. See, e.g., 48 FR 39582 (August 31, 1983).

Bubbles can help break such deadlocks over the feasibility of obtaining further reductions, by providing an incentive for plant managers to find economical ways to go beyond current regulatory requirements. The opportunity to trade may also encourage sources to come forward in order to establish the quantifiable and enforceable emission limits on which credit must be based.

Bubbles may achieve substantial reductions even without special "progress" requirements, since sources not otherwise subject to or not yet meeting RACT requirements with future effective dates in such nonattainment areas must first reduce emissions to RACT-allowable levels before they can begin to accrue credit.26 Where modeled showings of ambient equivalence are required, bubbles may also help identify and correct remaining nonattainment problems. In addition, bubbles may help produce (a) faster compliance with RACT limits already defined in partially-approved SIPs, (b) faster RACT definitions for sources not subject to currently approved portions of SIPs, (c) incentives for plant managers to disclose uncontrolled or uninventoried sources, and (d) incentives for such managers to control emissions earlier than required. Perhaps most important, because of their potential to elicit better information on sources, emissions, control performance and ambient effects, bubbles may enhance states' ability to secure future reductions, if and when such reductions are required. For example, EPA experience has documented cases in which bubble or similar trading applications have improved federal and state air quality management capabilities by improving data on emissions, ambient impacts, and unregulated or uninventoried sources. 27

²⁴ The Agency has determined that these conclusions also apply where the post-application reduction on which the applicant relies for credit happens to be a shutdown or production curtailment. Because multiple motives similarly affect, and can determinatively "tip," decisions to close a facility or restrict its productive capacity. shutdowns that occur after the source owner applies for credit, no less than other types of postapplication reductions, may be presumed reasonably elicited by the opportunity to trade. This is particularly true because the source operator. whatever its antecedent motives, must make a deliberate decision to lorgo an Item of substantial value-either by surrendering its operating permit or by accepting hinding production limits—in order create credit. Since it would be administratively difficult if not impossible, to prove or disprove that opportunity to trade was the driving force or a subjective motive behind the shutdown, such a presumption is amply justified.

^{\$6} See e.g., 47 FR 15077, 15080; 48 FR 33580 and n. 2, 39582 and n. 7.

RACT levels are generally at least 80% or more below uncontrolled emission levels, depending on the pollutant. Where pre-trade actual emissions are higher than RACT baseline levels this requirement directly accelerates air quality progress, since no credit can be secured for the difference.

^{*7} Trade applications submitted over the last several years have, among other things, helped establish and verify emissions factors for nontraditional sources, as well as provide detailed emissions profiles of such sources (see, e.g. application of Shenango Iron and Sieel Co., approved 46 FR 62894 (December 29, 1981)), have provided current emissions data not otherwise available to EPA through the Agency's National Emissions Data System (50 FR 25093, June 17, 1965), and have disclosed the existence of sources (or in #1 least one case an entire plant) that had been wholly missed in development of the state's emissions inventory. Other applications have identified and reduced previously unsuspected threats to PSD increments; helped correct substantial discrepancius between inventoried and actual emissions, or between SIP emission limits and attainment demonstrations; and helped improve enforcement procedures in certain state programs. In addition to such case-specific examples, opportunity to trade appears to reduce traditional reasons for sources to underestimate their emissions, resulting in better inventory and planning data. For example Massachusetts requires firms to provide data on their two years of highest emissions since the design year of the SIP, in order to establish a daily emissions cap under the state's VOC bubble rule This requirement has produced baseline data for previously unquantified emission years for some

Through all these mechanisms, bubbles can achieve substantial emission reductions and air quality planning benefits, even without special "progress" requirements.

Nowithstanding these independent progressive effects. EPA believes that it may approve bubbles in these nonattainment areas only if they meet the specific progress requirements described above and do not interfere with the affected areas' efforts to develop and implement complete attainment strategies. Such bubbles can help adjust existing inadequate regulations on a source-specific basis, help make progress toward a full approved demonstration, and help improve air quality, without "freezing" inadequate SIP requirements that are currently in place.

Accordingly, EPA has decided to approve "progress" bubbles which are consistent with the attainment needs of these areas, which produce a net air quality benefit, and which may therefore secure faster interim progress toward attainment and more rapid development of complete attainment plans.

III. Additional Policy Changes and Clarifications

Today's notice makes numerous additional changes in response to comments on and following the 1982 policy. The most important of these changes or clarifications are discussed below.

A. Generic Bubble Rules

Today's notice recognizes the special position of EPA-approved state generic bubble rules. Such rules may provide clearer approval criteria and may result in more rapid bubble approvals with reduced expenditure of EPA and state resources, by eliminating the need for case-by-case Federal rulemaking on each bubble as an individual SIP revision.

Today's policy affirms that states may continue to use generic rules to approve bubbles within the scope of such rules in all areas of the country, including primary nonattainment areas needing but lacking approved demonstrations of attainment. It also establishes specific procedures to ensure opportunity for public comment on individual generic actions and for regular EPA oversight of state administration of all such rules. Finally, it spells out additional 'progress" requirements that new generic rules must satisfy to be approvable for primary nonattainment areas needing but lacking demonstrations of attainment.

State generic bubble rules approved by EPA as SIP revisions have

independent force of law and further Congress' intent that "the prevention and control of air pollution at its source [remains] the primary responsibility of States and local governments." Clean Air Act, § 101(a)(3). EPA has approved or proposed to approve 10 such rules for 9 different states, and at least 12 others are being developed. Few approved rules currently apply to primary nonattainment areas which require but lack approved demonstrations. However, today's notice requires that all generic rules meet certain additional procedural requirements in order to assure effective EPA oversight of their administration and to identify any deficiencies in individual approvals or state implementation procedures before substantial numbers of state-approved bubbles may be put at risk. To the extent these requirements require modification of existing generic rules, they may apply to rules affecting any area, not just primary nonattainment areas which need but lack demonstrations.

Today's policy is meant to assure these rules' smooth continued operation, both now and through any future transition periods, without undermining the considerable investment states have already made in generic approaches. At the same time, the policy is designed to assure that actions under generic rules will meet the policy's substantive and procedural objectives.

Basically, bubbles approved by states under existing EPA-approved generic rules before the effective date of this policy will not be affected or revisited due to today's changes. Because EPAapproved generic rules possess independent validity and may only be changed upon completion of specific procedures for altering such SIP provisions (see, e.g., Clean Air Act sections 110(a)(2)(H), 110(i)), states may ulso continue to approve bubbles in accord with such rules, unless and until those rules are finally changed in response to an EPA notice requesting and establishing a specific timetable for their modification. However, in order to provide maximum assurance of SIP integrity and minimize any need for future SIP corrections, EPA expects states to assure so far as feasible that generic bubbles they approve are consistent with applicable terms of today's policy as well as their generic rules. New or pending generic rules must all meet the terms of today's notice.

All existing generic rules which require modification to conform to this policy must, as requested by EPA, be promptly revised. EPA will review such rules to determine their consistency with today's requirements, and will publish Federal Register notices identifying generic rules requiring modification. These notices will identify specific deficiencies and means for correcting them, and set forth a schedule for both submittal and EPA review of revised rules. Where states fail to resolve identified deficiencies in such rules within the prescribed period, EPA may either resoind its previous approval of the rule, or issue a notice of SIP deficiency under section 110(a)(2)(H) of the Act.

1. Substantive "Progress" Requirements

Generic bubble rules applicable to primary nonattainment areas which need but lack approved demonstrations must provide that all generic bubbles in these areas:

(a) Use lowest-of-actual-SIPallowable-or-RACT-allowable emissions baselines, as described above, for all sources involved in the trade:

(b) Grant credit only for those reductions occurring after an application to bank or trade credit (whichever is earlier) has been made;

(c) Incorporate replicable procedures which assure that all trades preapproved by EPA as meeting the rule will also satisfy applicable ambient equivalence tests (see Technical Issues Document, Section II.B.2.); and

(d) Produce an overall emission reduction at least equal to a net 20% reduction in emissions remaining after application of the above baselines, or at least equal (in percentage terms) to the overall emission reduction (in percentage terms) needed to attain in the area (i.e., at least equal to the source-by-source emission reductions that would be required for a full demonstration of attainment, taking into account "uncontrollable" stationary [e.g., area] sources and expected emission reductions from mobile sources], whichever is larger.²⁸ This last

²⁵ For example, assume air quality analysis indicates the area must decrease its base-year emissions by 45% to attain the relevant NAAQS. Further assume:

i) For the base year.	
Uncontrollable stationary source emissions (e.g., residential combustion sources)	2,500
Controllable stationary source emissions	3,500 4,900
	
-10th	10,000
Target emissions for attainment 10,000×(1.8-	5,500
) For the projected attainment year (before addi- tional controls):	
Uncontrollable stationary source emissions (2,500×1.1)	2.750
Controllable stationary source emissions	4.200
Mobile source emissions	2.500
Total	9.45

determination must be submitted with the rule, and must use the same type and quality of analysis required for an EPAapprovable SIP. In no event may the overall emission reduction required of generic bubbles in such areas be less than 20% of the emissions remaining after application of the baselines specified above; and

(e) provide assurances, in conjunction with the state's submittal of the generic rule to EPA, that the state (i) is making reasonable efforts to develop a completeapprovable SIP that will achieve the percent emission reduction from controllable sources described in the previous paragraph and (ii) intends to adhere to the schedule for development of such a SIP [including dates for completion of emissions inventory and subsequent increments of progress), as stated in the letter accompanying the submittal or in previous letters. EPA believes that the numerical determination and progress requirement discussed in the previous paragraph is the functional equivalent of the additional assurances described earlier in this notice (see Section II.B.I.b above) for bubbles needing case-by-case EPA approval, since bubbles meeting this requirement will produce attainmentlevel reductions. For that reason, EPA does not believe that it must require the state to make those additional assurances when it submits the generic

Therefore the reductions needed from controllable stationary sources are 9,450 – 5,500 = 3,950 tons/yr.

And the percent emission reduction required from controllable stationary sources to attain is

(5950) × 100=94%

Thus the net overall reduction required from each generic bubble would be 94% (i.e., the reductions produced by applicable baselines (e.g., application of a RACT emission rate) plus whatever percent reduction in emissions remaining after this RACT limit is sufficient to yield the 94% total).

States that wish to avoid case-be-case SIP revisions for sources for which RACT has not yet been defined in an approved SIP provison may incorporate "presumptive RACT" values (e.g., 80% reduction for VOC) in their generic rules. Sources would than have the option of accepting these RACT values for generic bubble purposes, or negotiating different RACT values through the case-by-case SIP revison process. However, where a source involved in a trade is one for which EPA has issued a CTG, but the state has not yet adopted the CTG-specified emission rate as RACT and no RACT has yet been specified by the state for that source, the presumptive or negotiated RACT values for the trade must be at least as restrictive as the CTG-tequirement appelifydenission rate for that source.

the SIP and do not replace prior valid

rule. However, to assure that generic approvals continue to complement and do not interfere with attainment planning, EPA will require the state to include all of those assurances in or with its notices of proposed and final approval of each bubble issued under the rule in such a nonattainment area. Generic rules meeting these requirements will assure that each stateapproved bubble produces reductions at least equal to those which would be required under an approved demonstration of attainment. Their availability can also encourage states and sources to take significant further steps towards such demonstrations. Since reductions sufficient for timely attainment are all EPA can require for approval of State Implementation Plans under section 110 and Part D of the

2. Procedural Requirements

Clean Air Act, Train v. NRDC, supra.

further Agency scrutiny of individual

bubble reductions is not required.

Today's notice includes tightened requirements designed to assure, with minimal burdens on states, that EPA's responsibility to monitor the implementation of all generic rules incorporated in SIPs (see section 110(a)(2)(A)(H)) is more efficiently and effectively carried out. EPA will fulfill this responsibility by (a) examining and commenting on, together with any other public commenter under applicable state law, the information provided for individual trades subject to proposed action under generic rules, (b) conducting reviews of individual trades approved under such rules; and (c) periodically auditing implementation of the rule itself as part of its National Air Audit System investigations of state air pollution control programs, including indepth file audits of actions under such generic rules. These activities will cover state actions of disapproval as well as approval, and will examine whether rules are being interpreted or applied within the scope of their approval by EPA.

To be considered valid by EPA, a trade approved under a generic rule must (1) be one of a class of trades authorized by the rule, (2) be approved by the state after the rule has been approved by EPA, and (3) meet all the provisions of the EPA-approved rule. State approvals which do not meet these requirements are not considered part of the SIP and do not replace prior valid.

SIP limits, which remain enforceable and may make such trades the subject of remedial action after due notice by EPA to the state and source.

In addition to requiring that generic rules or other state provisions assure meaningful notice to EPA by the first day of the public comment period on proposed generic actions, and immediately upon final generic actions, today's policy also requires that state generic rules or other state provisions provide the general public adequate notice and opportunity to comment, including opportunity for judicial review sufficient to make comment effective. Existing state generic rules, statutes or regulations will generally satisfy this requirement. However, some jurisdictions, for example, deny judicial review to commenters who do not possess a direct financial stake in individual permits. Such jurisdictions will have to modify their generic rule, or other provisions, to meet this requirement.

B. Bubbles Involving Hazardous or Toxic Air Pollutants

EPA reaffirms and extends its 1982 determination that bubbles in any area must not increase emissions of hazardous or toxic air pollutants. Bubbles cannot be used to meet or avoid National Emission Standards for Hazardous Air Pollutants (NESHAPs) that have been finally promulgated under Section 112 of the Act. Where NESHAPs have been proposed but not promulgated for emitting sources which are the subject of a bubble application. the proposed NESHAP will generally serve as the baseline for determining creditable bubble reductions, and the trade must produce reductions at least as great as those which the proposed NESHAP would produce, if promulgated. Moreover, no source emitting a pollutant subject to such a proposed NESHAP may exceed emissions allowed under the proposed NESHAP as a result of the trade. Where a bubble involves a pollutant which is listed under Section 112, but no NESHAP has yet been proposed for the relevant source category, or a pollutant for which EPA has issued a Notice-of-Intent-to-List, there must be no net increase in actual emissions of the noticed or listed pollutant.23 In general.

trade must be at least as restrictive as the specified emission rate for that source.

^{**} In some limited circumstances additional poliutants may be treated as listed pollutants. See Technical Issues Document, Section I.B.1.d

all bubbles involving emissions of pollutants described above must use lower-of-actual-or-NESHAPs-allowable emissions baselines, and must take place within a single plant or contiguous plants.30

Commenters who addressed this issue divided into two general groups. One group asserted that hazardous/toxic restrictions should extend beyond pollutants currently regulated, proposed to be regulated, or listed under Section 112. These comments generally maintained that restrictions should also apply to all pollutants the Agency is "actively considering" for listing. A second group asserted that neither volatile organic compound [VOC] nor particulate emissions should be traded unless there is clear evidence that specific substances present in such VOC or particulate emissions are "relatively innocuous.'

EPA has determined that for reasons of policy and administrative practicality these suggestions, while laudable in intent, should not be adopted. Bubbles are alternative means of compliance which should generally be treated no differently than other compliance strategies, provided basic SIP requirments of consistency with ambient needs, PSD increments, and interim progress are met. EPA's statutory authority to further restrict trades on the basis of hazardous substances which may be present in a particular criteria pollutant stream (e.g., VOCs) and which may be subject to a listing, notice-ofintent-to-list or proposed NESHAP, but are not as yet regulated under \$ 112, is limited. Generalized attempts to exercise such authority based on the presence of substances on which the Agency has taken no formal action whatever would be still more tenuous. Moreover, the inherent ambiguity of such terms as "actively considering" or "relatively innocuous" militates against such tests. States remain free to adopt further restrictions consistent with local laws and needs. However, with respect to national requirements EPA has concluded that clear decision points based on actions pursuant to the deliberative process and record

evidence underlying section 112 determinations are to be preferred.

Interested parties should be aware. however, that under today's policy the Administrator reserves discretion to consider on a case-by-case basis whether bubble proposals involve pollutants which, while not regulated, listed or otherwise noticed under section 112, are regulated as toxic under other federal health-based statutes, and to require further analysis before approving such proposals.

One commenter expressed concern over the 1982 policy's use of the term "reasonably close" to indicate the distance which may be covered by bubbles involving pollutants listed or proposed to be regulated under section 112. EPA agrees this term is ambiguous, and with the exception of bubbles which affirmatively decrease such pollutants below the lower-of-actual-or-NESHAPsallowable baseline, has substituted the. more protective and certain requirement that such trades occur within a single plant or contiguous plants. In order to assure that such trades do not produce adverse health or environemental effects, today's notice also requires that they rely only on reductions below current actual or section 112 allowable emissions as of the trading application, whichever is lower, in pollutant streams containing a substance which has been noticed, listed, or proposed to be regulated under section 112.

Several of these provisions-notably the proposed NESHAPs baseline and source-specific proposed-NESHAPs emissions cap, the inclusion of pollutants subject to Notices-of-Intentto-List, and the general limitation to contiguous plants and lower-of-actualsor-§ 112-allowables baselines represent substantial tightenings over the 1982 policy.

C. Banking Emission Reduction Credits

EPA-approvable emission reduction. banks may allow sources to store ERCs for their own future use or use by others. Today's notice reiterates that states are by no means required to adopt banking procedures, but notes that banks may help states and communities realize important planning and environmental benefits.31 Banks may encourage firms to create inexpensive extra reductions at earlier, optimal times (e.g., when replacing outworn control equipment or deciding how to meet new requirements) and disclose such information to state agencies. They may help create a central pool of identifiable, readily-available

reductions which can ease plant modernizations or expansions, new source siting, or existing-source compliance. Properly-structured banks may reduce incentives for sources to delay, conceal or hoard actual or potential reductions until an immediate use arises. Banks may also produce other, interim environmental benefits. since banked ERCs remain out of the air , (although they must be treated for SIP planning purposes as "in the air") until used. In addition, banks can help state agencies manage their permit workloads more efficiently, because portions of new source or existing-source compliance transactions may be prepermitted or reviewed in advance. Banks may also help states systematically assure that all unused surplus reductions are treated as "in the air" for SIP planning purposes, avoiding potential inconsistencies which might cause those reductions to be lost.

Comments indicated some confusion: over whether, in addition to meeting other ERC requirements, reductions must be made federally enforceable to be formally credited for banking. The answer is no. However, in order to qualify as emission reduction credits and be deposited in EPA-approvable banks, emission reductions must be made enforceable by the state. Reductions must be made enforceable by the state by their time of deposit in order, e.g., to better ensure the integrity of the state's air quality planning process by preventing sources from banking reductions of emissions which. their permits do not preclude them from continuing to emit. This requirement will also prevent undue reliance by parties or potential parties on emission reductions which have not actually occurred.32. However, because these

engine and profession 30 The one exception involves bubbles in which surplus reductions in the emissions of pollutants subject to regulation, proposed regulation, listing, or Notice-of-Intent-to-List as hazardous emissions compensate for increases in non-hazardous emissions. (E.g., where a source decreases benzene emissions below the baseline specified above, in: exchange for corresponding increases elsewhere in a non-hazardous VOC.) As song as such a trade would not result in an increase in either actual or allowable emissions of a pollutant subject to the special restrictions discussed above at any source, it would not differ in nature of requirements from a trade involving only non-hazardous emissions.

^{*1} See e.g., 47 FR 15083-84 (April 7, 1982).

²² In primary nonattainment areas which need but lack approved demonstrations, emission reductions made prior to application to bank or trade (whichever is earlier) will not be credited for use in bubbles (see Section I.A. Lc.(1) of today's Technical Issues Document): Following publication of today's notice, the "date of application to bank" will be the date the source submits an application to the state to make a reduction state-enforceable through or concurrent with use of a formal bank or informal banking mechanism (see section LA.1.b.(1) of today's Technical Issues Document). - -

In other areas, although emission reductions cannot qualify as ERCs or be deposited in EPAapprovable banks until they are made enforceable by the state, emission reductions banked through other formal or informal banking mechanisms which do not make reductions state-enforceable by thetime of deposit will still be eligible for use in future trades, so long as those reductions are made federally enforceable at time of use and ell applicable requirements of the regulatory program under which they will be used are met

actions merely create extra reductions in actual or allowable emissions which cannot by themselves produce any adverse effects on air quality, they need not be made federally enforceable until used.33 Where states wish to make banked emission reductions federally enforceable at the time they are banked, several mechanisms may be available for doing so without case-by-case SIP revisions. States with EPA-approved PSD, NSR, visibility and preconstruction review programs can issue permits to credit reductions from emission units currently subject to these preconstruction permits.34 States with EPA-approved generic rules may also be able to use those rules' procedures to make reductions at existing sources federally enforceable. Since only reductions in applicable emission limits are involved at the banking stage. modeling should not be required. Moreover, these reductions should automatically meet the requirement that changes in emission limits under generic rules not jeopardize ambient standards or PSD increments.

Since some trades have special requirements, banks do not guarantee the validity of particular banked ERCs for all potential uses or for all time. For example, because only actual reductions occurring at the same major stationary source are eligible for netting, banked reductions created at other stationary sources cannot be used for netting transactions. However, banked credits resulting from reductions at other stationary sources may be used as offsets or in bubbles, so long as this notice's other requirements for appropriate use of credits are observed and applicable offset requirements are satisfied.

Because of differing regulatory requirements, the amount of credit actually derived from particular emission reductions may also differ from one regulatory program to another. For example, in primary nonattainment areas needing but lacking approved demonstrations, the amount of credit

available from a given reduction for bubble purposes may be less than that available from the same reduction for netting or offset purposes, since special progress requirements apply to bubbles in these areas.

Because the use of credits will change (rather than merely reduce) emission levels if approved, such proposals should be carefully evaluated to assure they meet all of today's criteria for appropriate use. For similar reasons proposals to use banked credits will usually require additional approval procedures (e.g., additional modeling for certain TSP or SO₂ trades), whether such proposals are evaluated as case-by-case SIP revisions, under EPA-approved generic rules, or under EPA-approved new source review programs.

One commenter asked how banked ERCs would be treated if a nonattainment area is being redesignated to attainment. Redesignation will have no effect on the banked ERCs, so long as state planning considered those ERCs to be in the air (i.e., in the inventory) at the site of their creation. Because local recessions or shifts in industrial patterns can temporarily affect air quality without regard to the adequacy of state emission-control efforts, EPA guidance requires that redesignation not be based solely on monitored air quality. In addition to considering factors such as the state of the particular economy and its effect on emissions, EPA may consider the number, type, and state inventory treatment of banked credits. Such procedures will help assure that . reliably banked reductions are not reduced or otherwise adversely affected by shifts in an area's designated attainment status.

Some commenters asserted it is overly cautious to require that all banked emissions be considered as "in the air." One commenter asked that state planning be required to include as "in the air" only a portion of banked emissions analogous to a "reserve requirement." This comment drew parallels with financial banking to assume that, given withdrawals and deposits, a certain "float" quantity of ERCs would always remain in the bank and out of the air. EPA recognizes that reductions placed in banks may tend to : keep the air cleaner through a relatively. constant level of deposits. However, EPA cannot allow states to consider less than their full amount of banked deposits as "in the air." To do so could

jeopardize air quality planning and attainment. 35

D. OBERS Projections and Double-Counting

In its August 1983 notice EPA asked for further comment on whether some SIPs' translation of general economic growth projections provided by OBERS (Department of Commerce) directly into projected emissions growth, left "no straightforward way to disaggregate the projections into shutdowns and new plant openings." Whether such SIP demonstrations were fully or only partly approved, the notice continued, such use of OBERS might make it impossible to distinguish which shutdowns were already relied on in the demonstration. Therefore, it might be "difficult or impossible for states whose SIPs rest on OBERS projections to grant credit from shutdowns for use in existing source bubble trades, consistent with the Clean Air Act." 48 FR 39581.

Most industry and several state commenters asserted that where OBERS data were used to project needed SIP reductions, use of shutdown credits in bubbles was not a problem, since OBERS figures substantially overestimate the total amount of emission reduction needed to attain. For example, one industry commenter noted that "emissions growth will not be directly proportional to economic growth because of the installation of new environmentally efficient technologies. Therefore, SIPs which used "OBERS" projections already have

Since states may have to revise their regulations or permit procedures in order to implement this new state-enforceability requirement, full implementation will not be expected until one year after publication of today's notice. However, all credits not made enforceable when banked during this interim period, together with all credits during the processed of the period together with all credits at the enforceable within eighteen months from the date of this policy.

²² Cf. 47 FR 15076, 15081 at col. 2.

^{**} Some jurisdictions may also use general state preconstruction review programs that have received EPA approval to credit reductions at existing sources if such reductions are covered under the program, since requirements under these programs are federally enforceable.

³⁵ In order not to defeat banking's purpose of encouraging the earliest possible disclosure and production of potential extra emission reductions. use of banked credits for bubble purposes in primary nonattainment areas which lock approved demonstrations will continue to be allowed provided these credits meet all baseline and other applicable requirements of today's notice for these areas. This generally includes the lowest-of-actual-SIP-allowable-or-RACT-allowable emissions baseline, applied as of the date of written application to the state to bank such reductions through a formal bank or informal banking mechanism for use in future trades. It also includes that 20% net reduction requirement and state assurances specified above, at the time such credits are approved for use in bubbles. Banked credits resulting from plant shutdown or production curtailments may be used for bubbles in these areas on the same terms as use of other banked credits. provided their use is subject to stringent qualitative review to assure legal, technical and programmatic consistency with SIP planning goals (e.g., avoldance of "shifting demand"). See today's Policy at n. 24 and Section [.A.1.c(3) of the Technical issues: Document. (Banked credits resulting from certain shutdowns or production curtailments may. however, be subject to special restrictions for offset purposes. See today's Technical Issues Document at n. 14).

The special restrictions discussed above do not apply under today's notice to use of banked credit for outbile purposes in other areas.

an inherent growth potential built into them, and allowing ERCs for shutdowns in these areas will not jeopardize a state's ability to demonstrate attainment." A local agency agreed that "demonstrations.... based on such emission projections would overestimate attainment because some growth will occur from [wholly] new sources, new sources replacing existing sources, or modified existing sources. [all of] which would be subject to ... New Source Review rules, rather than the less stringent [SIP] requirements assumed in the emission projections."

Several state commenters also stressed that while use of OBERS projections is not widespread, the underlying question is whether the area's SIP process incorporates conditions sufficient to prevent doublecounting of shutdown credits. One local agency recommended that shutdown credits be prohibited where the source involved is within an industrial category projected to go through an economic downturn, asserting that in such cases the SIP implicitly relies on the expected shutdowns. An environmental group went a step further, and urged that all shutdown credits for bubbles in areas using OBERS projections be completely prohibited.

EPA has concluded that the requirements of the 1982 policy are sufficient to prevent double-counting of shutdown credits, and should be retained without further special restrictions. First, use of OBERS or any other projection is relevant only where an area has an approved attainment demonstration. Today's notice generally disallows bubble credit for preapplication reductions (including reductions from shutdowns or cartailments) in primary nonattainment areas which require but lack such demonstrations. Thus today's notice largely moots any issue of doublecounting for past shutdowns, in the areas for which this issue has been raised with the greatest concern. Second, use of OBERS projections in areas with approved demonstrations does not appear nearly so common as was assumed in EPA's 1983 request for further comment. Even where such projections were used in approved demonstrations, they generally overestimate the amount of emissions forecast to exist in the year of projected attainment They therefore tend to assume substantially less overall reductions from source turnover than

Finally, even if such projections did not overestimate emissions, under today's notice the state must show that use in bubbles of any reductions created by shutdowns is consistent with its. attainment demonstration and that those reductions were not already assumed in its SIP. For example, the state must show that it did not implicitly or explicitly rely on a "turnover rate" from the difference in emissions between existing sources and bettercontrolled new sources for part of the reductions required in its SIP from that industrial category. Alternatively, it must show that if a "turnover rate" was assumed, the shutdown credits used in an individual trade result from reductions in excess of that turnover rate. Where a state regulated the sources in a standard industrial classification (SIC) without explicitly relying on turnovers, then bubble credit for a shutdown within that SCI category would not in general be doublecounted.37

These requirements should fully protect states and sources against adverse environmental or SIP effects.

E. Improved Modeling and de Minimis Requirements

Bubble applicants must show that their proposed trades are at least equivalent in ambient effect to the SIP (or other) emission limits the bubble would replace. For some criteria pollutants (e.g., VOC or NO₂) this test may generally be met by showing equal

pace with projected trends in earnings and/or employment in those SIC codes, without regard to changing distributions between new and existing sources. See, e.g., 1980 OBERS: BEA Regional Projections, Volume 1: Methodology, Concepts and State Data, p. (xi), U.S. Department of Commerce (July 1981).

³⁷ Such credits must of course meet all other requirements of today's notice, including application of appropriate baselines and other criteria defining surplus reductions, before they may be used in a hubble trade.

States which expressly relied on OBERS projections may also show that no double-counting occurred by demonstrating that they did not implicitly rely on any turnover credits. This showing should not be difficult to make because OBERS assume that emissions will evenly increase at each plant and production line, proportionate to growth in earnings and employment potential for that SIC code. Cf. n. 38 above. This assumption neither anticipates nor relies on the fact that any shutdown will occur.

The one exception to these general principles could occur where a SIP relied on OBERS projections for an SIC category predicted to undergo a quantified future economic downturn, without taking explicit affirmative steps to preclude reliance on that downturn, in these circumstances the state would either have to show that a proposed

reductions in emissions.³⁸ For other pollutants (e.g., SO₂, TSP or CO) it was traditionally met, prior to the 1982 policy, through ambient dispersion modeling.

The 1982 policy made available several alternatives to the use of fullscale dispersion modeling where such modeling was not needed to protect air quality. These alternatives could, in appropriate, carefully-limited circumstances, be used to demonstrate ambient equivalence for bubbles involving particulate matter or other pollutants whose ambient effects were not linearly related to emissions. They included de minimis levels and the use of other screening criteria to identify circumstances in which full-scale modeling was unnecessary, either for bubbles processed as SIP revisions or those approved under generic rules.

Today's notice both tightens some of these screening criteria and expands the circumstances in which such criteria can be used.

Today's notice also specifies certain conditions and types of case-by-case SIP-revision bubbles for which EPA Regional Offices may require additional technical support, beyond basic modeling requirements, deemed necessary to protect NAAQS, PSD increments or visibility where allowable values used to calculate baseline emissions are not clearly used or reflected in an approved demonstration, or may not reasonably be assumed consistent with the need to protect PSD increments or visibility. See Technical Issues Document, Section I.A.1.a.

1. De Minimis Levels

Under the 1982 policy, trades in which net baseline emissions did not increase and in which the sum of emission increases, looking only at the increasing sources, totaled less than 100 tons per year (TPY) after applicable control requirements, could be exempted from SIP revisions under an approved generic rule. The rationale for this approach was that EPA regulations implementing the Clean Air Act already allow some exemptions from NSR requirements for new sources which are not defined as "major"—i.e., which do not have potential emissions greater than 100 . TPY. See e.g., CAA section 302(j) and 40 CFR 52.21(b)(1) and 51.18(j)(1)(v). Thus trades which merely shift lesser ... amounts of emissions, and which are

³⁸ Interested parties should; however, be aware

an inherent growth potential built into them, and allowing ERCs for shutdowns in these areas will not jeopardize a state's ability to demonstrate attainment." A local agency agreed that "demonstrations . . . based on such emission projections would overestimate attainment because some growth will occur from [wholly] new sources, new sources replacing existing sources, or modified existing sources, [all of] which would be subject to. New Source Review rules, rather than the less stringent [SIP] requirements assumed in the emission projections."

Several state commenters also stressed that while use of OBERS projections is not widespread, the underlying question is whether the area's SIP process incorporates conditions sufficient to prevent doublecounting of shutdown credits. One local agency recommended that shutdown credits be prohibited where the source involved is within an industrial category projected to go through an economic downturn, asserting that in such cases the SIP implicitly relies on the expected shutdowns. An environmental group went a step further, and urged that all shutdown credits for bubbles in areas using OBERS projections be completely

prohibited.

EPA has concluded that the requirements of the 1982 policy are sufficient to prevent double-counting of shutdown credits, and should be retained without further special restrictions. First, use of OBERS or any other projection is relevant only where an area has an approved attainment demonstration. Today's notice generally disallows bubble credit for preapplication reductions (including reductions from shutdowns or cartailments) in primary nonattainment areas which require but lack such demonstrations. Thus today's notice largely moots any issue of doublecounting for past shutdowns, in the areas for which this issue has been raised with the greatest concern. Second, use of OBERS projections in areas with approved demonstrations does not appear nearly so common as was assumed in EPA's 1983 request for further comment. Even where such projections were used in approved demonstrations, they generally overestimate the amount of emissions forecast to exist in the year of projected attainment They therefore tend to assume substantially less overall reductions from source turnover than will actually occur.36

Finally, even if such projections did not overestimate emissions, under today's notice the state must show that use in bubbles of any reductions created by shutdowns is consistent with its. attainment demonstration and that those reductions were not already assumed in its SIP. For example, the state must show that it did not implicitly or explicitly rely on a "turnover rate" from the difference in emissions between existing sources and bettercontrolled new sources for part of the reductions required in its SIP from that industrial category. Alternatively, it must show that if a "turnover rate" was assumed, the shutdown credits used in an individual trade result from reductions in excess of that turnover rate. Where a state regulated the sources in a standard industrial classification (SIC) without explicitly relying on turnovers, then bubble credit for a shutdown within that SCI category would not in general be doublecounted.37

These requirements should fully protect states and sources against adverse environmental or SIP effects.

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States which expressly relied on OBERS projections may also show that no double-counting occurred by demonstrating that they did not implicitly rely on any turnover credits. This showing should not be difficult to make because OBERS assume that emissions will evenly increase at each plant and production line, proportionate to growth in earnings and employment potential for that SIC code, Cf. n. 36 above. This assumption neither anticipates nor relies on the fact that any shutdown

The one exception to these general principles could occur where a SIP relied on OBERS projections for an SIC category predicted to undergo a quantified future economic downturn, without taking explicit affirmative steps to preclude reliance on that downturn, in these circumstances the state. would either have to show that a proposed shutdown credit from a source within that SIC category was not double counted (e.g., by showing that more shutdown reductions than projected for ... the SIC category had already occurred), or deny

reductions in emissions.38 For other pollutants (e.g., SO2, TSP or CO) it was traditionally met, prior to the 1982 policy, through ambient dispersion modeling.

The 1982 policy made available several alternatives to the use of fullscale dispersion modeling where such modeling was not needed to protect air quality. These alternatives could, in appropriate, carefully-limited circumstances, be used to demonstrate ambient equivalence for bubbles involving particulate matter or other pollutants whose ambient effects were not linearly related to emissions. They included de minimis levels and the use of other screening criteria to identify circumstances in which full-scale modeling was unnecessary, either for bubbles processed as SIP revisions or those approved under generic rules.

Today's notice both tightens some of these screening criteria and expands the circumstances in which such criteria can

be used.

Today's notice also specifies certain conditions and types of case-by-case SIP-revision bubbles for which EPA Regional Offices may require additional technical support, beyond basic modeling requirements, deemed necessary to protect NAAQS, PSD increments or visibility where allowable values used to calculate baseline emissions are not clearly used or reflected in an approved demonstration, or may not reasonably be assumed consistent with the need to protect PSD increments or visibility. See Technical Issues Document, Section I.A.1.a.

De Minimis Levels

Under the 1982 policy, trades in which net baseline emissions did not increase and in which the sum of emission 🐃 increases, looking only at the increasing sources, totaled less than 100 tons per year (TPY) after applicable control requirements, could be exempted from SIP revisions under an approved generic rule. The rationale for this approach was that EPA regulations implementing the Clean Air Act already allow some exemptions from NSR requirements for new sources which are not defined as "major"—i.e., which do not have potential emissions greater than 100 . TPY. See e.g., CAA section 302(j) and 40 CFR 52.21(b)(1) and 51.18(j)(1)(v). Thus trades which merely shift lesser amounts of emissions, and which are

³⁶ This is so because OBERS-based SIP projections assume that units of production (and hence emissions) in particular SIC Codes will keep

³⁸ Interested parties should; however, be aware that ambient equivalence considerations which apply to SO: TSP, and CO, as described below, also apply to NO, trades involving visibility impacts from elevated plumes. See Section LB.1.b. of today's Technical Issues document.

accompanied by compensating decreases, should not be subject to more stringent requirements. As the 1982 notice put it, "Such trades will have at most a de minimis impact on local air quality because only minor quantities of emissions are involved . . . the Federal resources required to evaluate these trades could best be used to evaluate actions that have a potential impact on air quality." 47 FR at 15085. 59

One commenter asserted that this 100 TPY limitation was unnecessary, since the trades to which it applied were already required to produce no net increase in emissions. However, four state and environmental commenters urged that de minimis levels for such trades be the same as those triggering federally-mandated review of emissions increases in PSD areas. These comments primarily noted that EPA had already defined more relevant "cutoff" levels in its regulations for PSD, for NSR preconstruction permits in nonattainment areas, and in visibility permit regulations, and that emission shifts of 100 TPY from one source to another might still be too large to go unexamined for certain types of emissions and situations.

In order to ensure prosecution of ambient air quality, today's notice adopts more protective de minimis levels—derived from those for PSD; NSR permits in nonattainment areas; and the visibility permit regulations—of 100 TPY for CO, 40 TPY for SOz, 25 TPY for particulate matter, and 0.6 TPY for lead. Because of this action, state ambient evaluation of de minimis trades will no longer be required for generic bubble rules to be approvable by EPA.40 Trades involving sources of substantial size may still be implemented as de minimis under today's provisions, as long as the quality of ERCs traded by these sources is below the levels specified above.

2. Modeling Requirements 41

Numerous comments were received on the 1982 policy's three-level approach

28 The 1982 document did, however, note that such "(generic) trades are still subject to ambient tests [at the sicte level, and) . . . should accordingly be evaluated by the state under the

modeling screen . . . or an equivalent approach."
47 FR 15085 at n.7.

to demonstrating ambient equivalence. The vast majority sought added clarification, stating, for example, that the 1982 policy did "not adequately delineate the level of modeling necessary in each instance." Today's notice tightens and clarifies the conditions under which ambient equivalence may be demonstrated with less than full-scale modeling.

a. Level I Criteria. Under the 1982 document no modeling was generally required of SO₂. TSP, or similar trades where applicable net baseline emissions did not increase, sources were located in the same immediate vicinity (generally within 250 meters of each other), and the taller stack was the one which increased its emissions. These conditions were believed sufficient to assure that local ambient concentrations of the relevant criteria pollutants would not increase as a result of the trade.

EPA has added two criteria to those specified in 1982, in order to provide additional assurance that trades approved under Level I will have no adverse ambient effect. First, there must be no complex (e.g., mountainous) terrain within 50 kilometers of the trading sources or within the trade's area of significant impact, whichever is less. (For simplified methods of determining "area of significant impact," see today's Technical Issues Document, Appendix E). Second, stacks with increasing baseline emissions must be sufficiently tall to avoid downwash.

Some industry commenters objected to the 250-meter limitation, advocating use of either trade ratios for sources beyond that distance, or an 800-meter limit extrapolated from unrelated EPA regulations. *2 EPA has retained the 250-meter limit as substantially more consistent with the modeling screen's original intent of simplifying modeling requirements for trades which could not jeopardize ambient equivalence. *3

b. Level II Criteria. Trades of SO₂. TSP, CO. Pb and NO_x (for visibility purposes) may also be approved through limited Level II modeling of the ambient effects solely of sources involved in the trade, where applicable net baseline emissions do not increase and designated ambient significance levels are not exceeded.

Today's notice confirms, clarifies, and in certain cases extends various 1983 improvements made to increase certainty and better assure that such Level II trades result in ambient equivalence. In particular, "significant ambient impact" may no longer be measured solely by changes at the "receptor of maximum predicted impact" before and after the trade. Instead such changes must be measured at every affected receptor for every averaging period relevant to the particular pollutant, throughout the year. Under this approach no Level II trades will be approved without further scrutiny, involving full or limited Level III modeling, if they result in a significant net ambient effect at any modeling point for any such averaging period during a modeled year.

Today's notice also specifies Level II significance levels for all averaging periods consistent with all current national ambient air quality standards, not just the 24-hour averaging periods for SO₂ and PM or the 8-hour averaging period for CO.⁴⁴ Refined models such as MPTER and ISC must generally be used to measure changes resulting from the trade at each receptor, using the most recent full year of meteorological data.⁴⁵

These modeling requirements assure that bubbles which pass applicable Level II tests and meet all other requirements of today's policy will result in air quality equal to or better

⁴⁹ This should not be construed to imply that new sources and modifications need not meet all applicable requirements, including those specified under 40 CFR 51.18 or parallel EPA-approved state rules.

⁴¹ The following discussion summarizes both interim improvements made in the 1982 modeling screen (see Technical Issues Document, Appendix C) and EPA's responses to major comments on modeling issues.

⁴² See e.g., 47 FR 5884, 5885 (February 8, 1982).

⁴³ Trade ratios may already be used under general provisions inviting states to design other equivalent approaches which adequately address ambient concerns. See., e.g., 47 FR at 15077 and n.2. 15078. However, to be approved by EPA such ratios would generally have to be defined through areawide advance modeling of all sources, as well as those likely to trade.

Several comments also objected to the requirement that Level I trades not increase emissions from the source with the lower effective plume height. These comments noted that under various conditions similar stacks could so vary in effective plume height that neither would consistently be "higher" or "lower." One also suggested this limitation might encourage use of tall stacks to cure local exceedances.

Today's notice retains this Level I requirement unchanged. That two sources may be virtually indistinguishable in effective stack height should not delay approval of Level I trades, since the

limitation's purpose—preventing potentially significant increases in ground-level ambient concentrations due to shifts of emissions from "higher" to "lower" stacks—will still be satisfied. Moreover, since such trades cannot increase act baseline emissions, this limitation merely ensures they will not create new ambient violations. Because other EPA regulations address the use of excessively tall stacks to cure existing ambient violations, no further restriction in this Level I requirement appears required.

⁴⁴ For further discussion of these significance levels and the increased assurance of environmental equivalence they provide in conjunction with today's more sophisticated Level II modeling approach, see Fleckenstein, "Modeling Criteria: The Key to Major Reforms for Emissions Trades," APCA Paper 84–65.2 (San Francisco, California, June 28, 1984).

⁴⁵ Under some limited conditions, conservative acreening models may be substituted for these refined models, and in these cases a full year of meteorological data may not be necessary. See Technical Issues Document, Section I.B.I.b (3)

than that produced by pre-trade emission limits, and may be approved. Because refined models have now been approved by EPA and their parameters may be specified with greater certainty and confidence, these requirements also provide a firmer basis for approving state generic rules incorporating Level II.45

c. Level III Criteria. Trades which are not de minimis and do not satisfy Level. I or Level II above must generally be evaluated by full-scale ambient dispersion modeling. Two air pollution control agencies recommended fixed trading ratios in lieu of such modeling. asserting this would reduce cost and uncertainty while continuing to meet the goals of the Clean Air Act, EPA recognizes the legitimacy of these concerns but has concluded that trades which do not satisfy Level I or II raise the kinds of air quality issues which appropriately require full-scale modeling, unless such trading ratios have been justified by similar area-wide modeling conducted in advance of the

Today's notice does, however, modify Level III to provide states and sources more flexibility in this regard. Where a trade meets all other criteria of Level II, but Level II modeling has shown significant potential increases at particular receptors, modeling analyses under Level III may under appropriate circumstances be limited to a receptor area smaller than the trade's entire area of impact, so long as it includes emissions from all sources which contribute to ambient concentrations in that limited geographic area. Because of the unique nature of each situation, the appropriate limited geographic area must be determined in accord with EPA guidelines on modeling and case-bycase evaluation. This "limited Level III" approach may conserve significant resources, while allowing states and

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sources to focus on specific geographic areas of concern.47

F. Enforcement Issues

Several commenters noted that while sources should, as provided in the 1982. policy, be allowed to use bubbles to come into compliance, bubble applications might also be used to delay compliance or enforcement without compensating environmental benefits. Some of these commenters alluded to language in the 1982 notice which, while not authorizing or intended to authorize such results, could have been interpreted to allow them. Such unacceptable delay might, for example, arise where a source facing an imminent compliance deadline suddenly advances a bubble application and asserts that more time is needed to develop and evaluate that application before compliance with original SIP limits should be required.

Both bubbles and generic rules can be important means of allowing environmentally-sound compliance. Generic rules may be more expeditious than case-by-case SIP revision bubbles. They may also preserve the very opportunity to bubble when the time needed to process a case-by-case SIP revision might extend beyond the source's original SIP compliance date. At the same time, bubble applications should not become a shield against enforcement actions for sources which have failed to take necessary steps to meet required control obligations on time. Bubbles are simply alternative means of complying at less cost. They should be treated neither more nor less stringently than other, more traditional methods of compliance. Bubbles offer innovative ways to meet emission reduction obligations. They should not become devices to avoid such obligations.

Today's notice substantially clarifies and tightens the 1982 policy to better implement these principles. Among other steps, compliance extensions will no longer be granted under generic rules in any nonattainment area, and may be

granted generically in attainment areas only where EPA has approved the timeextension portion of the rule as consistent with relevant Clean Air Act requirements, including expeditious attainment and maintenance of ambient standards. Cf. 47 FR at 15078 col. 2. This will generally mean that requests for time extensions as part of bubble applications must be separately reviewed as individual SIP revisions, subject to criteria EPA normally applies to such requests,

Today's notice also re-emphasizes that as a matter of law and sound policy, sources seeking bubbles remain subject to enforcement of existing (pretrade) SIP limits until the bubble is finally approved. Sources which possess approved bubbles with future effective dates remain subject to similar enforcement of pre-trade limits until either those limits or the new ones are met, and may wish to take steps identified in the notice, including accelerated compliance with bubble limits, to minimize that possibility. See Technical Issues Document, section

Under today's notice, EPA will not specifically select such sources for enforcement action. Nor will EPA withhold or defer enforcement simply because a source is seeking alternative emission limits through a bubble. In exercising its inherent enforcement discretion, EPA will apply the same considerations to noncompliant sources which seek to comply through bubbles. as to those which do not.46

Emissions Trading Policy Statement

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- 1. Surplus
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⁴⁶ Interested parties should, however, be aware that because of replicability concerns related to application of any approach requiring use of casespecific ambient dispersion modeling, such Level II generic rules may be more difficult to draft and implement than rules incorporating only de minimis and Level I approaches for SO₂, TSP, CO or Pb. During and after issuance of the 1982 interim policy EPA staff drafted and informally circulated, at the request of state and focal air agency directors model generic rules which provided more detail to help interested states acceptably address these concerns. The Agency plans to update and recirculate those model rules as quickly as possible after publication of today's notice. EPA encourages parties wishing to develop generic rules to use these new models and work closely with relevant Regional staff so that potential problems may bepromptly identified and resolved:

⁴⁷ Today's notice also requires bubble trades in certain primary nonattainment areas needing but lacking approved demonstrations to produce a "net air quality benefit," which shall consist at minimum of a 20% reduction in emissions remaining after application of the lower-of-actual-SIP-allowable-or-RACT-allowable emissions baselines to all sources involved in the bubble. See, e.g., Section II. B above. This requirement does not entail any modeling different than or in addition to the modeling approaches discussed above. It is merely intended ensure that where appropriate levels of modeling indicate that prescribed baseline values are not sufficient to produce ambient equivalence, additional reductions which assure such equivalence, prior to the 20% net discount in baseline emissions, will be required.

^{: 46} States and sources should, however, be aware that under current EPA guidance, such discretion is most likely to be exercised where a SIP-revision. bubble has been formally proposed for approval at the state level and EPA staff have concluded that it appears approvable under current EPA policy. In these circumstances initiation of action to enforce pre-trade limits that would soon be replaced by a valid bubble reconfiguration would likely consume limited EPA enforcement resources to little environmental end.

B. Using Emission Reduction Credits Emissions Trades Must Involve the Same Criteria Pollutant 2. All Uses of ERCs Must Satisfy Applicable Ambient Tests 3. Bubbles Must Not Increase Hazardous Pollutants 4. ERCs From Existing Sources Cannot Be Used to Meet Technology-Based Requirements Applicable to New Sources 5. States May Approve Bubbles in Primary Nonattainment Areas Which Require But Lack Approved Demonstrations of Attainment 6. Sources Need Not Be Subject to Binding Compliance Schedules Based on Current SIP Requirements 7. States May Extend Certain Compliance Schedules 8. States May Approve Bubbles Involving Open Dust Sources of Particulate Emissions 9. Trades Involving Lead

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I. Introduction: Basic Elements of Emissions Trading

This statement details EPA policy on emissions trading. It sets out conditions EPA considers necessary for emissions trades to satisfy the Clean Air Act. It also clarifies and otherwise makes final the Interim Policy proposed on April 7, 1982 (47 FR 15076). It is accompanied by a Technical Issues Document which elaborates and provides greater detail on principles set forth below. Finally, it addresses new issues, and incorporates certain additional safeguards as a result of past trading experience, to better assure the environmental integrity of future trades.

A. What is Emissions Trading?

Emissions trading consists of bubbles, netting, emission offsets, and emission reduction banking. These steps involve creation of surplus emission reductions at certain stacks, vents or similar sources of emissions and use of these emission reductions to meet or redefine pollution control requirements applicable to other emission sources. Such emissions trades can provide more flexibility to meet environmental requirements, and may therefore be used to reduce control costs and encourage faster compliance. Moreover, by developing "generic" trading rules

(see Section III below) states may be able to expedite bubble approvals by eliminating the need for case-by-case SIP revisions and by providing more predictable approval criteria.

B. The Bubble

EPA's bubble lets existing plants (or groups of plants) increase emissions at one or more emission sources in exchange for compensating extra decreases in emissions at other emission sources. Approved bubbles give plant managers the ability to implement less costly ways of meeting air quality requirements. To be approvable, each bubble must produce results which are equivalent to or better than the baseline emission levels in terms of ambient impact and enforceability. Thus, bubbles should jeopardize neither ambient standards nor applicable PSD increments and visibility requirements. Under EPA's bubble, emission reductions from existing sources can not be used to meet technology-based requirements applicable to new or modified stationary sources.

This Policy Statement replaces EPA's original bubble policy (December 11, 1979: 44 FR 71779) and Interim Emissions Trading Policy (47 FR 15076). It tightens general bubble principles as well as requirements for bubbles in primary nonattainment areas which require but lack demonstrations of attainment, and requires bubbles in these areas to produce progress towards attainment, beyond equivalence to stringent emission limits. By specifying EPA's requirements for bubbles in all areas, this Policy Statement should make the development, review and approval of environmentally-sound bubbles more rapid and predictable.

C. Netting

Netting may exempt "modifications" of existing major sources from certain preconstruction permit requirements under New Source Review (NSR), so long as there is no net emissions increase within the major source or any such increase falls below significance levels. By "netting out." the

1 "States" includes any entity properly delegated authority to administer relevant parts of a State Implementation Plan (SIP) under the Clean Air Act.

² See, e.g., 40 CFR 51.18(j)(1)(x), 51.24(b)(23), 52.21(b)(23). See also today's Technical Issues Document, n. 47 and accompanying text.

modification is not considered "major" and is therefore not subject to associated preconstruction permit requirements for major modifications under 40 CFR 51:18, 51.24, 52.21, 52.24, 52.27, or 52:28. The modification must nevertheless meet applicable new source performance standards (NSPS), national emissions standards for hazardous air pollutants (NESHAPs), preconstruction applicability review requirements under 40 CFR 51:18(a)-(h) and (l), and SIP requirements.

Netting's scope is determined by the definition of "source" for review of. major modifications. In general, PSD areas use a single, plantwide definition. allowing actual emission reductions anywhere in a contiguous plant to compensate for potential emission increases at individual emitting units within the plant. Nonattainment areas can choose either this single, plantwide definition or a dual definition, so long as the definition selected does not interfere with attainment and maintenance of NAAQS and is consistent with progress towards attainment. Under the plantwide definition, significant net actual increases at the plant as a whole will trigger new source review. Under the dual definition, significant increases at either the plant as a whole or individual emitting units will trigger new source review.

In addition to these federal definitions for major new sources and modifications, state preconstruction permits for major or minor new sources and modifications may be required under 40 CFR 51.18(a), and some states preclude netting.

D. Emíssion Offsets

In nonattainment areas, major new stationary sources and major modifications are subject to a presconstruction permit requirement that they secure sufficient surplus emission reductions to more than "offset" their emissions. This requirement is designed to allow industrial growth in nonattainment areas without interfering with attainment and maintenance of ambient air quality standards. It is currently implemented through SIP regulations adopted by states to meet the requirements of 40 CFR 51.18[j].

In attainment areas, some new sources and modifications might not otherwise be able to be constructed because their emissions would result in

^{* &}quot;Case-by-case SIP revision" means case-bycase approval by EPA as a SIP revision. This is the traditional mechanism by which bubbles and other SIP changes have been approved by EPA.

On November 7, 1988, EPA restructured CFR Part 51 and renumbered many of that Part's sections (51 FR 40858). Because most readers will be more familiar with prior designations, today's notice contains citations based on the organization of Part

⁵¹ as it existed before this restructuring Interested parties may use Appendix F of today's Technical issues Document to convert today's Part 51 citations to the corresponding new ones.

an exceedance of the applicable PSD increment or ambient air quality standard, would significantly contribute to a violation of an ambient air quality standard in a designated primary nonattainment area, or would significantly contribute to visibility impairment in a Federal Class I area. These sources may use emissions offsets to allow desired growth while protecting that increment, standard, or visibility.

E. Emission Reduction Banking

Firms may store qualified emission reduction credits (ERCs) in EPA-approvable banks for later use in bubble, offset or netting transactions. Depending on the bank's rules, banked ERCs may also be sold or transferred to other firms which seek to meet certain regulatory requirements by use of emissions trades.

EPA's revised Offset Ruling (40 CFR Part 51, Appendix S) allows states to establish banking rules as part of their SIPs. This Policy Statement and accompanying Technical Issues Document detail the necessary components of a complete state banking rule approvable under the Clean Air Act. While many areas also allow banking of emission reductions for various purposes through various formal or informal banking mechanisms, banks which do not meet today's criteria (e.g., by not making banked emission reductions enforceable by the state by the time the reductions are actually banked, or by not assuring that deposits are taken explicitly into account for SIP planning purposes) cannot qualify emission reductions as ERCs, and may offer substantially less protection in the event of future SIP corrections or changes in ambient attainment status...

F. Generic Trading Rules

Generic rules adopted as part of the SIP can authorize states to approve certain types of individual transactions without the need for case-by-case SIP revisions or associated federal review prior to approval. The first state generic bubble rule was approved by EPA April 6, 1981 [46 FR 20551]. For the current scope of permissible rules, see Section III below.

G. Effect of This Policy Statement

Emissions trading is largely voluntary: no source is required to trade, and no state is required by EPA to approve a particular trade or to adopt a generic rule. Trading merely offers states and stationary sources alternative ways to meet regulatory requirements. For example, states are free to adopt generic rules or continue to implement trades as individual SIP revisions. They may

adopt rules which incorporate all or any combination of the above trading approaches.4

This Policy Statement is accompanied by a Technical Issues Document for use by states and industry in further understanding emissions trading. The Document offers elaboration and important detail on requirements and available options under the Clean Air Act.

This notice reflects the current Clean Air Act and existing EPA regulations. A policy statement cannot legally alter such requirements. However, this notice establishes EPA policy in areas not governed by applicable regulations and sets out general principles which may help states and industry apply those regulations in individual cases. Federal or state rulemaking in response to, e.g., future litigation or changes in ambient standards, attainment status, or SIP validity, may affect states or firms that plan to engage or have engaged in emissions trading activities.

Nothing in today's notice alters EPA new source review requirements or exempts owners or operators of stationary sources from compliance with applicable preconstruction permit regulations in accord with 40 CFR 51.18, 51.24, 51.307, 52.21, 52.24, 52.27, and 52.28. Interested parties should, however, be aware that bubble trades are not subject to preconstruction review or regulations where these trades do not involve construction, reconstruction, or modification of a source.

EPA intends to apply changes made by today's policy prospectively (e.g., not to actions which have already been approved as case-by-case SIP revisions or under generic rules). If, however, ambient violations are discovered in an area where EPA has approved a trade, or if other violations of Clean Air Act requirements are discovered in that area, sources involved in the trade should be aware that they are potentially subject to requirements for additional emission reductions, just as are all other sources in the area.

This policy requires that substantial additional reductions (at least 20%) in

emissions remaining beyond applicable baselines be produced by future bubbles in primary nonattainment areas which require but lack approved. demonstrations of attainment. However, applications for bubbles in such areas which are still pending at EPA without formal action under the 1982 policy, or which were previously submitted to EPA Regions under the 1982 policy but not accepted for evaluation, will be reexamined and processed for approval if they meet the requirements of the 1982. policy and contribute to progress towards attainment. "Progress towards attainment" means some extra reduction beyond equivalence to a lowest-ofactual-SIP-allowable-or-RACTallowable emissions baseline, with this baseline applied as of the time applicants originally sought credit. Pending bubbles in attainment areas and nonattainment areas with approved demonstrations of attainment will be processed for approval if they meet the requirements of the 1982 policy and show that ambient standards, PSD increments and visibility will not be jeopardized.

For further discussion on pending bubbles see Section I.A.1.b.(4) of the Technical Issues Document.⁵

II. Requirements for Creating, Using, or Banking Emission Reduction Credits ⁵

A. Creating Emission Reduction Credits

Emission reduction credits (ERC's) are the common currency of all trading activity. ERCs may be created by reductions from either stationary, area, or mobile sources. To assure that emissions trades do not contravene relevant requirements of the Clean Air Act, only reductions which are surplus, enforceable, permanent, and quantifiable can qualify as ERCs and be banked or used in an emissions trade.

⁴ Some requirements underlying emissions trading are not voluntary. For example, construction of a major new source or major modification in a nonattainment area requires sufficient existing-source reductions to constitute, "reasonable progress toward attainment" despite the new emissions (40 CFR \$1.78(j); Part \$1. Appendix \$1. However, where the area has an established "growth margin" of extra reductions in a SIP which is currently approved by EPA, the state may provide the offsets from that growth margin rather than require them from the source, so long as it reduces the margin accordingly. See Clean Air Act section 173(1)(A) and (B)

^{*}EPA encourages states or sources which submitted bubbles that were returned without evaluation by EPA to resubmit them under these criteria, provided they can document (a) formal, timely submittal of an application to EPA in accord with normal EPA procedures and (b) that the application was returned without evaluation, rather than rejected for failure to meet the terms of the 1982 policy. Bubble applications which were accepted for evaluation but rejected for failure to meet the 1982 policy will be treated as new applications under today's notice.

^{*}Because this Policy Statement and accompanying Technical Issues Document reflect general Clean Air Act principles, states, individual sources, or commenters on specific rulemaking actions are free to show that a general principle does not apply to particular circumstances or could be satisfied using approaches other than those described. States, sources and commenters have this option under current law, and nothing in this Policy Statement or the Technical Issues Document restricts their opportunity to make such showings.

1. Surplus. At minimum, only emission reductions not required by current regulations in the SIP, not already relied on for SIP planning purposes, and not used by the source to meet any other, regulatory requirement, can be considered surplus. To determine the quantity of emission reductions that are surplus, the state must first establish an appropriate emissions baseline from which surplus reductions can be calculated. Baseline emissions for any source are the product of three factors—emission rate, capacity utilization, and hours of operation.⁷

In attainment areas, the lower of actual or allowable values must generally be used for each of these baseline factors. However, allowable values for one or more of these factors, when higher than actual values, may be used in calculating the baseline emissions, provided those values are shown to be used or reflected in an approved demonstration. The burden of meeting this test by written evidence rests with the state or applicant which seeks to use an allowable value.

When allowable values for one or more baseline factors are not used or reflected in an approved demonstration, such values may still be used in calculating baseline emissions. However, in such cases applicants must perform appropriate modeling to demonstrate that allowable values which are higher than actual values will not delay or jeopardize attainment and maintenance of ambient standards.9

In attainment areas where the PSD baseline has been triggered, credit may be granted consistent with the PSD baseline concentration as specified in 40 CFR 51.24(b)(13) and 52.21(b)(13). This will generally require use of actual values for each of the baseline factors. However, states may use allowable values if they show through appropriate modeling 10 that attainment and maintenance of neither the ambient standards nor applicable PSD increments will be jeopardized, and quantify the amount of increment consumed.

In nonattainment areas with approved demonstrations of attainment, the baseline must be consistent with assumptions used to develop the area's demonstration. This generally means that actual values must be used for each baseline factor where actual values were used for such demonstrations, and that higher allowable values for these factors inav be used where allowable values were used for such demonstrations.11 The burden of showing that an allowable value was used or reflected in the approved demonstration rests with the state or applicant which seeks to use an allowable value. In the absence of written evidence to that effect, full Level III modeling would be required to make use of an allowable value in baseline calculations.12

In primary nonattainment areas which need but lack approved demonstrations of attainment, states must show that bubbles meet special "progress" requirements designed to produce a net air quality benefit. This must be demonstrated by (1) using the lowest-of-actual-SIP-allowable-or-RACT-allowable emissions baseline for each source involved in the trade: 13 (2) meeting the ambient equivalence tests outlined in sections II.B.2 of this Policy and I.B.1.b. of the Technical Issues Document; and then (3) producing a substantial net reduction in actual emissions (i.e., a reduction of at least

20% in the emissions remaining after application of the baseline specified above). The state must also provide assurances that the bubble is consistent with ambient progress and future air quality planning goals. 14

2. Enforceable. To assure that Clean Air Act requirements are met, each transaction which revises any emission limit upward must be approved by the state and be federally enforceable. Means of making emission limits: federally enforceable include SIP revisions (see section IV below), EPAapproved generic bubble rules (see Section III below), and new source preconstruction permits issued by states under EPA-approved SIP regulations pursuant to provisions of 40 CFR 51.18. 51.24, or 51.307, as well as construction permits issued by EPA or delegated states under 52.21.15 Bubbles should be incorporated in an enforceable compliance instrument which requires recordkeeping based on the averaging period over which the bubble is operating, so it may easily be determined over any single averaging period that bubble limits are being met.

3. Permanent. Only permanent reductions in emissions can qualify for credit. Permanence may generally be assured by requiring federally enforceable changes in source permits or applicable state regulations to reflect a reduced level of allowable emissions.

4. Quantifiable. Emission reductions must be quantifiable both in terms of estimating the amount of the reduction and characterizing that reduction for future use. Quantification may be based on emission factors, stack tests, monitored values, operating rates and averaging times, process or production inputs, modeling, or other reasonable measurement practices. The same method of calculating emissions should generally be used to quantify emission levels both before and after the reduction.

B. Using Emission Reduction Credits

ERGs may be used by sources in bubble, offset or netting transactions. The general principles below will assure

⁷For further discussion of these factors as they relate to baseline calculations, see Appendix B of the Technical Issues Document.

⁴This statement does not apply to neiting, when

^{*}This statement does not apply to neiting, where "contemporaneous" actual emissions are always the baseline. See, e.g., 40 CFR 51.24(b)(3).

Bubbles in arrias with demonstrations based only on qualitative judgments (e.g., the "example region" approach or no technical support) ordinarily may not rely, without appropriate modeling, on allowable values in calculating baseline emissions. However, bubbles in areas with demonstrations based on rollback or dispersion modeling may use effowable values that are reflected in the demonstration. In certain circumstances an allowable baseline value specified in a preconstruction permit may be deemed equivalent to one used or reflected in an approved demonstration. See Technical issues Document, n. 7.

For further definition of "actual" and "allowable" see today's Technical issues Document, Section I.A.I.a. and Appendix B.

This demonstration would require a Level II modeling analysis. In accord with the modeling screen discussed below, using actual emissions for the pre-bubble case, unless, for bubbles processed as case-by-case SIP revisions, the Region determines that additional technical support is needed to protect applicable standards or increments. For discussion of Level II modeling, see Technical issues Document, section LE.1.b.(3). For turther discussion of additional technical support which Regions may require in these circumstances, see Technical issues Document, Section I.A.1.a. For a discussion of parallel modeling requirements for

use of such higher allowable values in attainment areas under *generic rules*, see Technical Issues Document, p.31.

¹⁰ See n.9 above.

¹¹ For netting, "contemporaneous" actual emissions are always the baseline. See, e.g., 40 CFR 51.18(j)[i](vi).

¹² For further discussion of Level III modeling, see Technical Issues Document, section I.B.1.b(4).

¹³ For purposes of today's notice, the "lowest-of-actual-SIP-allowable-or-RACT-allowable" emissions baseline means the product of (1) the lowest of the actual emission rate, the SIP or other federally enforceable emission limit, or a RACT emission limit, and (2) the lower of actual or allowable capacity utilization and hours of operation. For further discussion of this baseline, see Appendix B of today's Technical Issues Document.

¹⁴ The specific assurances may be found in the Technical Issues Bocument at I.A.I.b.(3). EPA will not second-guess such state assurances, provided they are: (1) A substantial test applied by the state to each bubble, and (2) the state has explained how the proposed bubble is consistent with the area's projected attainment strategy. This authority has not been delegated with EPA. See Clean Air Act. section 301(a)(1), 42 U.S.C. 7801(a)(1).

¹⁸ EPA is also considering generic steps which would make state operating permits federally enforceable. Prior to use, banked credits need not be made federally enforceable. See Section II.C.

that all uses of ERCs are consistent with ambient attainment and maintenance considerations under the Clean Air Act. They are further articulated in the accompanying Technical Issues Document. the state of

1. Emissions trades must involve the same criteria pollutant. An emission reduction may only be traded against an increase in the same criteria pollutant. For example, only reductions of SO2 can be substituted for increases of SOz.

2. All uses of ERCs must satisfy applicable ambient tests. The Clean Air Act requires that all areas throughout the country attain and maintain national ambient air quality standards and meet applicable ambient requirements relating to PSD increments and Class I protection, including visibility. The ambient effect of a trade depends on the dispersion characteristics of the pollutant involved. With the exception of visibility for NOx, dispersion considerations will generally not affect trades involving VOC or NOz, whose impacts occur across broad geographic areas. For these pollutants "pound for pound" trades may be treated as equal in ambient effect where all sources involved in the trade are located in the same control strategy demonstration area, or where the state otherwise shows such sources to be sufficiently close that a "pound for pound" trade can be justified. However, dispersion characteristics are important for bubble and offset trades of SO2, particulates, CO, or lead, whose ambient impact may vary with where the emission increases and decreases occur. To assure ambient equivalence, such trades of these pollutants must satisfy ambient tests under the modeling screen discussed in the Technical Issues Document or under a similar, equally effective approach.16

16 For similar reasons, bubbles of these pollutants must involve sources which are in the same or adjacent control strategy demonstration areas within the same general air basin.

See section ILA 1, above and Technical Issues Document, Section LA.1.a regarding additional technical support required for certain trades in attainment areas.

While bubbles in primary nonattainment areas which need but lack approved demonstrations of attainment must produce a net air quality benefit. this does not entail additional ambient tests. Such bubbles must first meet the general tests under the modeling screen showing ambient equivalence for bubbles, prior to producing the required additional reductions. They must then produce additional reductions of at least 20% beyond the applicable baseline emissions used to demonstrate ambient equivalence. Since these additional reductions will necessarily reduce ambient concentrations below equivalence at some receptors, while continuing to meet the tests for ambient equivalence at all others. a net air quality benefit should occur and no additional ambient showings, beyond those generally required for all bubbles, are required.

3. Bubbles must not increase . hazardous pollutants. Bubbles may not be used to meet applicable requirements of National Emissions Standards for Hazardous Air Pollutants (NESHAPs) promulgated under section 112 of the Clean Air Act, to increase emissions at any source beyond the levels applicable NESHAPs prescribe, or to create any net increase in baseline emissions of a pollutant regulated under section 112 The applicable baseline for regulated sources is the lower of actual or NESHAPs-allowable emissions of the hazardous pollutant.

Where a NESHAP has been proposed but not yet promulgated for a source category which emits a pollutant listed under section 112, the proposal will serve as an interim guideline for evaluating the effects of any proposed emissions trade involving a source that would be subject to the proposed standard. In general, such trades will be approvable with respect to the emissions component of the trade subject to the proposal, so long as they result in emission limits at each source emitting the relevant pollutant which are equivalent to or lower than those the proposed NESHAP would have required if already promulgated. 17

Where a pollutant has been listed under section 112 or where EPA has published a Notice-of-Intent-to-List, but no regulations for the source category involved in the trade have yet been proposed or promulgated, the trade will generally be acceptable with respect to the emissions component of the trade subject to notice or listing, if there is no net increase in actual emissions of that pollutant as a result of the trade. 18

Any trade involving sources or source categories subject to the preceding subparagraphs must take place within a single plant or contiguous plants, and must credit only reductions below current actual or NESHAPs-allowable. emissions, whichever is lower. But cf. generally.n. 6 above and today's Technical Issues Document, section LB.l.d.

Trades which do not meet the special restrictions discussed in this section may also be approved where surplus reductions in the pollutants addressed

17 The allowable emission rate for a source subject to a proposed NESHAP is the limit stipulated in the proposal.

above compensate for increases in nonhazardous emissions of the same criteria pollutant (e.g., benzene, a hazardous VOC, is reduced to create credits for an increase in non-hazardous VOC emissions.) As long as such a trade would not result in an increase in either actual or allowable emissions of a pollutant subject to the preceding paragraphs at any source, it would not differ in nature or requirements from a trade involving only nonhazardous VOC emissions.

4. ERCs from existing sources cannot be used to meet technology-based requirements applicable to new sources. Under Clean Air Act section 111 and EPA implementing regulations, new affected facilities must satisfy technology-based New Source Performance Standards (NSPS), regardless of the attainment status of the area in which they are located. Under sections 165 and 173 and EPA implementing regulations, new or modified major stationary sources must also satisfy technology-based control obligations associated with preconstruction permits. These requirements prohibit use of credits from existing sources to meet or avoid applicable NSPS, and bar use of such credits to meet applicable new source review requirements for best available control technology (BACT) in PSD areas, or lowest achievable emission rate control technology (LAER) in nonattainment areas.19

5. States may approve bubbles in primary nonattainment areas which require but lack approved demonstrations of attainment, provided such trades meet requirements designed to produce a net air quality benefit and the state provides certain assurances. See section II.A.1. above and the Technical Issues Document, section -I.A.1.b. Bubbles which meet these objective requirements will be processed for approval by EPA.

6. Sources need not be subject to binding compliance schedules based on current SIP requirements before they can apply for a bubble which would supersede those requirements. Sources that are already subject to binding compliance schedules should be aware, however, that such schedules remain fully enforceable until a bubble affecting the schedule has been approved by EPA or under a state generic rule and the

¹⁵ Where EPA has issued a "Notice-of-Intent-Notto-Regulate" one or more source categories for a listed pollutant, emissions of that pollutant from the unregulated source category will nevertheless be treated the same as emissions of any other listed pollutant. Under limited circumstances, similar treatment will be given to pollutents for which a "Notice of Intent-Not-to List" has been published. See the Technical Issues Document, section LB.1.d.

¹⁹ But of, sections LC, and LD, above. Today's notice does not address whether or under what circumstances facilities subject to NSPS. BACT or LAER may surpass applicable permit limits reflecting such requirements in order to create credits for existing source trades.

schedule has been modified accordingly. Sources subject to compliance schedules in administrative orders or judicial decrees must obtain prior approval from EPA or the relevant court, as appropriate, to be relieved from the schedule contained in the order or decree. Sources that are subject to SIP requirements remain responsible for meeting those requirements unless and until a bubble has become effective under Federal law. See section II.B.12 below.

7. States may extend certain compliance schedules. States may no longer grant compliance extensions under new or revised generic rules in nonattainment areas, whether or not such areas have demonstrations. ²⁰ However, states may continue to grant compliance date extensions under generic rules in attainment areas, provided EPA has approved the extension provisions of the generic rule as being adequate to comply with the Clean Air Act, including requirements for attainment and maintenance of ambient air quality standards.

States that wish to give sources in nonattainment areas, and sources in attainment areas for which there is no applicable generic SIP provision, more time to implement bubbles by granting compliance extensions, must receive EPA approval of the extensions through case-by-case SIP revisions. Requests for such compliance date extensions, whether in attainment or nonattainment areas, may be submitted to EPA together with bubbles, as part of a single SIF revision package. EPA will separately evaluate the time extension portion of these SIP revision packages in accord with the Agency's normal criteria for review of time extensions, including consistency with the Act's requirements for expeditiousness, reasonable further progress, and attainment and maintenance. Sources should be aware that disapproval of such time extension requests may result in disapproval of the entire package (i.e., both post-trade limits and the time extension) or only part of it, depending on whether the

state views these components of the proposed SIP revision as separable.

8. States may approve bubbles involving open dust sources of particulate emissions, based on modeling demonstrations. Open dust trades may be approved through individual SIP revisions based on acceptable modeling and/or monitoring demonstrations, provided sources agree to post-approval monitoring to determine if predicted air quality results have been realized and make an enforceable commitment to achieve necessary additional reductions if predicted results do not materialize.

9. Trade involving lead. Unlike other criteria pollutants, EPA does not designate nonattainment areas for lead. However, the Regional Administrator will review lead trades, as all other trades, to assure that they do not interfere with attainment and maintenance of NAAQS.

10. Trades involving ERCs from mobile source measures. ERCs from mobile source measures may be used to meet SIP requirements applicable to existing stationary sources, so long as such reductions are surplus, permanent, quantifiable, and enforceable. Reductions from certain types of mobilesource measures (e.g., mechanical conversion of existing vehicle fleets to cleaner fuels such as methanol) may satisfy these criteria more readily than those from other transport-related measures. However, due to possible difficulties in determining whether specific mobile-source reductions fully meet these criteria, all such trades must be implemented as case-by-case SIP revisions.

11. Interstate trades. Trades involving sources located in neighboring states may be approved, provided they meet all other requirements of today's notice. However, in order to avoid complex SIP accounting issues, where state trading requirements differ EPA will require that such trades meet the substantive requirements of the more stringent state. In general, EPA will deem ERCs created in one state to contribute to progress in the state where used to the extent of that use, provided that applicable ambient tests (section II.B.2 above) are met. Interstate trades must be implemented through case-by-case SIP revisions.

12. Bubbles must not impede enforcement. In general, bubbles are a form of SIP revision which should be treated neither more nor less stringently than other SIP revisions. Bubbles should not become a shield against enforcement actions for sources which have failed to take necessary steps to

meet required control obligations on time.

Sources seeking trades should note that they remain subject to enforcement of existing (pre-trade) SIP limits until the bubble is approved. EPA will use the same principles and procedures for deciding whether to initiate enforcement actions in these circumstances as the Agency applies to any other source which is subject to a proposed or final SIP revision.

Under established EPA policy, regulated sources must be subject to an applicable, enforceable emission limit at all times. Accordingly, sources which have approved bubbles with emission limits effective at a future date, and which are not in compliance with their pre-trade limits prior to that effective date, may be subject to enforcement action, which could include penalties based on a failure to meet the pre-trade limits. Sources in these situations may wish to minimize the chance that capital expenditures may be required to meet pre-trade limits, either by (a) agreeing to post-trade compliance dates which are substantially similar to their pre-trade compliance dates, or (b) accelerating their compliance with post-trade limits.

In accord with the general principle that bubbles should be treated neither more nor less stringently than other SIP actions, implementation of this Policy Statement will be neutral with respect to EPA enforcement of pre-trade emission limits. This means that EPA will not specifically select for enforcement action noncompliant sources seeking to use a bubble either to come into compliance or to restructure traditional compliance. However, it also means that EPA will not withhold or defer enforcement simply because a source is seeking alternative emission limits through a bubble. In exercising its enforcement discretion, EPA will apply the same considerations to noncompliant sources which seek to comply through bubbles as to those which do not

G. Banking Emission Reduction Credits

Only emission reductions that are surplus, permanent, quantifiable, and enforceable can qualify as ERCs and be deposited in EPA-approvable banks.²¹ Such banks offer sources legal recognition that qualifying reductions meet these ERC requirements. However,

²⁰ Existing generic rules applicable to these areas must be revised to comport with this principle where they contain such generic extension provisions. EPA will publish Federal Register notices identifying any generic rules which requireformal modification. Failure to resolve deficiencies identified in such a notice within the prescribed time period may result in EPA resoluting approval of the existing generic rule or issuing a notice of SIP deficiency. EPA expects states to ensure in the interim, so far as feasible, that compliance date extensions under existing generic rules are not granted to sources located in nonattainment areas. See section III below and section II.E.s. of the Technical issues Dooument.

²¹ Under today's notice emission reductions must be made enforceable by the state in order to qualify as ERCs and be deposited in EPA-approvable banks. However, because mere deposit of a reduction cannot result in emissions increases elsewhere, banked reductions need not be made federally enforceable until used.

the fact that an ERC has been banked does not relieve it from the need to meet all criteria of the specific regulatory program under which it is to be used.22 Because some trades have special limitations (e.g., only reductions occurring at the same major stationary source can be used for netting), banks do not guarantee the validity or specific amount of particular banked ERCs for all potential uses or for all time. To provide maximun protection for the environment and sources and to avoid potential legal problems, state banking rules may specify the types of sources eligible to bank ERCs and any additional conditions placed on certifying, holding or using banked ERCs.

State banking rules may establish ownership rights. However, any such rights must be consistent with Clean Air Act requirements, including the requirement that SIPs provide for expenditious attainment and maintenance of ambient air quality standards and protect PSD increments and visibility. To be approvable by EPA, such banking rules must also treat banked reductions as current actual emissions "in the air" at the source of their creation, in order to protect the integrity of future air quality planning. Failure to track the ambient effects of such banked reductions (e.g. by not including them in a new or updated inventory used for SIP planning purposes, or by relying on those reductions to secure attainment redesignations) would ordinarily preclude their use as ERCs, due to double-counting. Nevertheless, states have considerable latitude in meeting these requirements, and may guarantee banked ERCs against full or partial reduction in quantity, so long as that guarantee does not undermine attainment redesignations or interfere with progress and attainment should ambient standards change or additional emission reductions be required. The Technical Issues Document, section LC.9, outlines ways such guarantees may 12 made effective consistent with thrue requirements.

In many states, banking could be an extension of ongoing preconstruction permit activities. The state or its designee could accept and evaluate requests to certify an ERC, maintain a publicly-available ERC registry or similar instrument describing the

quantity and types of banked credits, and track transfers and withdrawals of ERCs.

Because banked reductions do not increase emissions at any source, they need not be made federally enforceable until used. For administrative or other reasons states may, however, choose to make them federally enforceable upon deposit. How the state makes a reduction federally enforceable for banking will depend on the type of source at which the reduction occurs. In some states, reductions associated with other modifications at a source can be included in federally-enforceable preconstruction permits issued under rules approved pursuant to 40 CFR 51.18, 51.24 or 51.307. States with EPAapproved generic rules can use their rules' procedures to make reductions occurring at existing sources federally enforceable. See Section III below. Since these transactions involve only reductions, air quality modeling is generally not required to assure that new emission limits do not interfere with attainment and maintenance of ambient standards, protection of applicable PSD increments, or impairment of visibility in mandatory federal class I areas. Such reductions will automatically meet the generic rule's test of whether a particular limit is within EPA's preapproved array of acceptable emission limits.23

States without EPA-approved generic rules can adopt rules limited to banking transactions, or can use the standard SIP revision process to make reductions federally enforceable at existing sources. General state preconstruction permit or review programs that have received EPA approval may also be used for this purpose, since permits issued through such programs are federally enforceable. See 40 CFR 51.18; 51.24; 51.307.24

23 Modeling will be necessary when a banked ERC is later evaluated for use in a trade, to the extent modeling is generally required for that particular type of emissions trade. III. State Generic Trading Rules

Use of emission reduction credits under state regulations approved by EPA as generic for identified classes of trades will not require individual SIP revisions for those trades. The Technical Issues Document explains acceptable generic procedures which states may adopt to reduce the need for individual SIP revisions.

Emissions trades can be approved without case-by-case SIP revisions if evaluated by the state under EPAapproved procedures which assure that no trade which meets their terms will interfere with timely attainment and maintenance of ambient standards. protection of applicable PSD increments, or visibility provisions. State generic rules are approvable only if their procedures are sufficiently replicable in operation to meet this test. By approving the generic rule, EPA approves in advance an array of SIP-compatible emission limits, and no further case-bycase Federal review or approval is required for individual trades which meet the terms of the rule.

In order to ensure that generic rules are properly implemented, EPA intends to (a) examine and comment on, together with any other public commenter, the information which must be provided for individual trades proposed by states under a generic rule, (b) conduct reviews of individual bubbles approved under a generic rule, and (c) periodically audit the general implementation of generic rules, as part of its National Air Audit System reviews of state air programs.²⁵

Any trade under a generic rule will involve emission increases at some sources and extra emission decreases at others. For trades to be approvable under a generic rule, the sum of these increases and decreases (beyond

²² States may, however, expand opportunities for use of banked credits beyond those of current SIP programs (e.g., extend the "contemporaneous" period for netting), by submitting revised regulations addressing the banking and use of such credits, for approval as SIP revisions.

²⁴ In primary nonattainment areas which need but lack approved demonstrations, use for bubble purposes of banked credits produced by shutdowns or curtailments will continue to be allowed on the same terms as use of other banked credits, provided their use is subject to stringent qualitative review to assure technical, legal and programmatic consistency with SIP planning goals (e.g., avoidance of doublecounting or "shifting demand"). However, sources which seek to use banked credits from shutdowns or curtailments for bubble purposes after publication of today's notice must show that a written application was submitted to make the shutdown/curtailment state-enforceable through or concurrent with use of a formal bank or informal banking mechanism, prior to the time the shutdown/ curtailment occurred. For sources which banked or sought to bank credits from shutdowns or curtailments in these nonattainment areas prior to publication of today's notice, written evidence must

be provided showing either that an application to deposit the credits in a formal bank was submitted to the state prior to the time the shutdown/curtailment occurred, or that the state acknowledged, before or at the time the shutdown/curtailment occurred, both the existence of that shutdown/curtailment, and the source's intent to use the resulting credits in a future trade. For additional detail on banking and use of credits resulting from shutdowns or curtailments in these or other areas, see Technical Issues Document. Sections I.A.I.c.(3) and I.C.

^{**} See, e.g., National Air Audit System Guidelines for FY 1984, Office of Air Quality Planning and Standards, EPA-450/2-63-007 (November 1983). State-approved generic trades that do not meet the terms of the relevant generic rule do not alter underlying SIP requirements, which remain fully enforceable. Generic rules found to be generally deficient in substance or implementation could ultimately result in notices of SIP deficiency or in rulemaking to rescind EPA's approval of the rule. For more detail on EPA oversight of generic rules, see Technical Issues Document, Section II. E.

applicable net baseline emissions) must be zero or less. Subject to this requirement, states may adopt generic rules which exempt from individual SIP revisions: (1) De minimis trades where total increases in emissions from all increasing sources (which must be balanced by equal or greater emissions decreases from other sources) are less than 25 tons per year (TPY) of particulates, 40 TPY of SO2, 100 TPY of CO, or 0.6 TPY of lead, after applicable control requirements; (2) large classes of trades involving VOC or NO. emissions:26 (3) trades between certain types of SO2 sources, between certain types of CO sources, between certain types of stationary lead sources, or between certain types of particulate sources, for which it can reasonably be assumed that "pound for pound" trades will produce ambient effects equivalent to those which approved air quality models would predict; and (4) other SO2. CO, Pb or particulate trades which do not increase baseline emissions and for which carefully defined modeling predicts no significant increase in ambient concentrations.

States and sources should, however, be aware that because of replicability problems inherent in modeling, generic rules which rely on preapproved procedures for modeled demonstrations of ambient equivalence may be difficult to draft or implement, and many trades may not be approvable under such rules. For these reasons generic rules covering only the first three classes of trades above will often prove easiest to secure. EPA encourages states to work closely with EPA Regional Offices to formulate and adopt approvable rules or develop alternative approaches that equally assure attainment and maintenance of ambient standards and protection of PSD increments and visibility. See Section II of the Technical Issues Document, which details criteria under which such generic rules may be approved.

To the extent general state procedures for rulemaking or permit changes do not assure reasonable public notice of proposed and final limits or effective opportunity for comment on proposed trades, states must incorporate such provisions in their generic rules.

In primary nonattainment areas which need but lack approved demonstrations, new generic rules must require, and existing generic rules must, as requested by EPA, be revised to

require bubbles to use lowest-of-actual-.SIP-allowable-or-RACT-allowable emissions baselines, and produce a net air quality benefit (as described below). New or revised generic rules in these nonattainment areas must be accompanied by certain assurances of consistency with air quality planning goals as well as a commitment to make certain additional assurances when the state approves individual bubbles under the rule. Bubbles approved under existing generic bubble rules before the effective date of this policy will not be affected by these requirements. Because EPA-approved state regulations have independent legal force, future bubbles submitted under existing generic rules may also be approved by states in accord with those rules, until such rules are modified to meet the criteria below.27

Existing generic rules in these areas must be modified to assure that bubbles produce an overall emission reduction at least equal (in percentage terms) to the overall emission reduction from controllable sources (in percentage terms) needed to attain in the area. Criteria for modifying generic rules are set forth in Section II.D. of the Technical Issues Document, including a requirement for a reduction equal to the greater of either the percentage reduction required for attainment, or a 20% reduction in emissions remaining after application of appropriate baselines. New and pending applications for generic bubble rules which meet these criteria will be processed for approval.

EPA will publish Federal Register notices identifying any generic rules applicable to these areas which require formal modification in order to meet the progress requirements above or other requirements of EPA's current Emissions Trading Policy. These notices will identify specific deficiences and means for correcting them, and will specify a schedule for submittal and review or modified rules. Failure to resolve deficiencies identified in these notices within the prescribed time period may result in EPA rescinding its previous approval or issuing a notice of SIP deficiency.28

IV. Bubbles Which Require Case-By-Case SIP Revisions

States and sources must use the caseby-case SIP revision process to implement bubbles which are not covered by a generic rule. Because the case-by-case SIP revision process can take account of many more individual variations, numerous trades which could not be accomplished through generic rules or similar means may still be approvable as case-by-case SIP revisions.

EPA will take action on generic rules and individual trades submitted as SIP revisions as quickly as circumstances permit after a state has adopted a SIP revision and submitted the action to EPA. EPA encourages "parallel processing" of such SIP revisions, with EPA and the state conducting concurrent review so that both agencies can propose and take final action at roughly the same time. EPA will also publish noncontroversial SIP revisions as immediate final actions, converting them to proposals only if requests to submit adverse comments are received within 30 days (see 46 FR 44477, September 4, 1981). In all bubble actions EPA will clearly identify (or require states to identify, as appropriate) both pre- and post-trade actual and allowable emissions for each source involved in the trade, so that the ambient effects of each bubble may be known.

V. Conclusion

This Policy Statement sets out basic principles for approving individual trades and generic trading rules. It tightens many requirements in order to better ensure SIP integrity and environmental progress, while offering ample opportunities for use of approvable, environmentally-sound trades. EPA encourages states and sources to use these principles as a framework and refer to the accompanying Technical Issues Document for further discussion and examples. EPA also encourages states to develop other approaches which satisfy these principles while meeting their specific needs.

^{**} Where visibility impairment due to elevated NO, emissions is a concern, generic trades involving NO, must ordinarily be subject to ambient requirements similar to those applicable to generic trades involving TSP. SO,. CO or Fb.

²⁷ In the interion EPA expects states to ensure, so far as feasible, that future bubbles approved under existing generic rules are consistent with this policy as well as the terms of their EPA-approved rules. States should be aware that without this or similar precautions, continued approval of bubbles under existing generic rules containing identified deficiencies may create or accentuate plan deficiencies that may have to be corrected at a later date or compensated for by other means. See section ILEA of the Technical Issues Document.

²⁵ Such notices may also be issued for existing generic rules in attainment areas and nonattainment

areas with approved demonstrations, if these generic rules are found to require procedural revision in order to make them consistent with the current Emissions Trading Policy. See Technical Issues Document section ILE.4.

EPA recognizes the additional filming burden which may be imposed on bubble applicants in areas where new generic rules cannot be or have not been developed to meet the specific air quality benefit requirements described above, and will attempt, so far as feasible, to ameliorate that burden in implementing this policy. See, e.g., n.ö and section II-B-12, above and related Preamble discussion, at n.48 and accompanying text.

As a policy statement, this notice does not establish conclusively how EPA will resolve issues in individual cases. EPA will accept public comment on specific SIP changes submitted under it, and will review individually each generic rule and those emissions trades submitted as SIP revisions to determine their acceptability under the Clean Air Act. Interested parties will have full opportunity to scrutinize application of these principles in specific cases, and to seek subsequent judicial review of such cases after EPA has taken final action on particular trades or generic rules.

Dated: November 18, 1986.

Lee M. Thomas,

Administrator.

Emissions, Trading: Technical Issues Document

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EMISSIONS TRADING: TECHNICAL ISSUES DOCUMENT

This Document offers more detail on technical issues for firms and pollution control agencies seeking to implement individual emissions trades or generic trading rules that meet the principles in EPA's final Emissions Trading Policy Statement. It describes both the legal requirements for emissions trades under the Clean Air Act, and a range of legal options which states 1 and sources may consider. States and firms may pursue other approaches consistent with those discussed here.

Section I of this Document explains general principles governing all emissions trading. Section II explains principles governing state generic rules. Section III discusses special considerations for emissions trades which must be implemented as case-bycase SIP revisions.

Because these sections reflect general Clean Air Act principles, states, individual sources or public commenters remain free to show that a general principle does not apply to particular circumstances or can be satisfied using another approach. States, sources and commenters have this option under current law, and nothing in the Policy Statement or this Document restricts their opportunity to make such showings.

Nothing in today's notice alters EPA new source review requirements or exempts owners or operators of stationary sources from compliance with applicable preconstruction permit regulations in accordance with 40 CFR 51.18, 51.24, 51.307, 52.21, 52.24, 52.27, and 52.28. Interested parties should, however, be aware that bubble trades are not subject to preconstruction review or regulations where these trades do not involve construction. reconstruction or modification of a source within the meaning of those terms in the regulations listed above.

^{1 &}quot;States" includes any entity properly delegated authority to administer relevant parts of a State Implementation Plan (SIP) under the Clean Air Act.

I. Elements Of Emissions Trading

The basic elements of any emissions trade are the creation of an emission reduction credit (ERC), its use in a trade and its possible storage in a bank prior to use.

A. Creating Emission Reduction Credits

States may grant credit only for those emission reductions that are surplus, enforceable, permanent, and quantifiable. Otherwise use of ERCs might degrade air quality, threaten the viability of the area's SIP, and make more stringent control requirements necessary.

1. All Reductions Must Be Surplus

At minimum, only emission reductions not required by current regulations in the SIP, not already relied on for SIP planning purposes, and not used by the source to meet any other regulatory requirement can be considered surplus and substituted for required reductions as part of an emissions trade.

The first step in qualifying a reduction as "surplus" is to establish a level of baseline emissions. This baseline represents the level of required emissions beyond which reductions must occur for a source to be eligible for credit. Three baseline factors—emission rate, capacity utilization, and hours of operation—must be used to compute and compare pre-trade and post-trade emission levels.*

The baseline for each source must be established both on an annual basis and for all other averaging periods consistent with the relevant NAAQS and PSD increments. This approach is necessary to protect the ambient standards and PSD increments on a short term as well as an annual basis. The baseline will generally be determined by the attainment status of the area, by the way the state developed its SIP, and by whether the area is subject to PSD requirements.

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nonattainment areas). In attainment
areas: baseline emissions must
generally be calculated using the lower

* For further discussion of these factors as they

relate to the calculation of baseline emissions, see

* Unclassified areas are treated as attainment

Unlike other criteria pollutants, EPA does not

designate nonattainment areas for lead. However,

interfere with attainment and maintenance of the

as all other trades, to assure that they do not

the Regional Administrator will review lead trades.

areas for permitting and emissions trading purposes.

Appendix B.

NAAOS.

of actual or allowable values 4 for all three baseline factors. However, allowable values corresponding to one or more of these factors, when higher than corresponding actual values, may be used in calculating baseline emissions, provided those values are shown to be used or reflected in an approved demonstration.5 The burden of meeting this test rests with the state or applicant. Where the State or applicant cannot show by written evidence 6 that the demonstration assumed an allowable value for a given baseline factor, appropriate modeling would be required in order to use an allowable value for that factor in calculating baseline emissions for the source.7 This will require a Level II modeling analysis as specified in the modeling screen described below, using actual emissions for the pre-trade case, unless the appropriate EPA Regional Office ("the Region") determines that additional technical support is necessary to protect the NAAQS, PSD increments or visibility. Additional technical support may be necessary because crediting the difference between actual and allowable values for even one of these factors may produce a post-trade increase in actual emissions sufficient to jeopardize applicable standards. increments or visibility

Additional technical support is not necessarily limited to determining the impact of the increases from the trade. The Region may require such additional

technical support, up to and including full Level III modeling, as is necessary to assure that applicable NAAQS, PSB increments and visibility requirements will be protected. It may require the determination of background concentrations to which the impacts of possible emissions increases that would otherwise fall below Level II significance values must be added. Background concentrations should be determined in a manner consistent with EPA's Guidelines on Air Quality Models.

In attainment areas where the PSD baseline has been triggered, the trading baseline for a source must generally be computed using actual values for all three baseline factors (i.e., only reductions below a source's actual emissions can be considered surplus). Because 40 CFR 51.24 and 52.21 specify that increses in actual emissions occurring after the PSD baseline date consume PSD increment, any trades based on allowable emissions which would potentially increase actual emissions must perform at least a Level II modeling analysis using actual emissions for the pre-trade case, and provide additional technical support if deemed necessary by the Region, to demonstrate that they protect the relevant increment ceiling, NAAQS, and visibility.

In nonattainment areas with approved demonstrations, baseline emissions for a source may be calculated using either allowable values or actual values for the three baseline factors, depending on the assumptions used in developing the area's demonstration.

Some states relied on allowable values for certain sources in developing their SO₂ and TSP attainment plans. In these nonattainment areas, sources may use allowable values in calculating baseline emissions, to the extent the state used or assumed those allowable values as the basis for its demonstration. The burden of showing that an allowable value was used or reflected in an approved demonstration rests with the state or applicant which seeks to use an allowable value.

Other nonattainment areas either used inventories based on actual emissions, or relied on measured (and therefore "actual") ambient air quality values, as the primary basis for determining SIP emission limits needed

^{*} For the definition of "actual" and "allowable" values, and further discussion on calculation of baseline emissions, see Appendix B.

This statement does not apply to netting, where "contemporaneous" actual emissions are always the baseline. See, e.g., 40 CFR 51.24(b)(3).

Bubbles in areas with demonstrations based solely on qualitative judgements [e.g., the "example region" approach or no technical support) ordinarily may not rely, without appropriate modeling, on allowable values in calculating baseline emissions. However, bubbles in areas with demonstrations based on rollbacks or dispersion modeling may use allowable values that are reflected in the demonstration.

^{*} For example, the demonstration calculations themselves, accompanying materials, or affidavits from those who constructed the demonstration.

⁷ In certain circumstances an allowable baseline value spécified in a preconstruction permit will be deemed equivalent to one used or reflected in an approved demonstration. For example, a source in an attainment area where a PSD baseline has been triggered may use allowable values consistent with its preconstruction permit, if that source's emissions are not reflected in the PSD ambient baseline concentration. (However, if modeling using allowable emissions predicts a PSD increment violation, then additional analyses must be done to assure that the PSD increment is protected.) A source in a nonattainment area may use allowable values consistent with its preconstruction permit to calculate its baseline, provided that permit postdates the nonattainment designation, SIP call design year, or baeline inventory year, whichever is applicable.

^{*}This statement does not apply to netting, where "contemporaneous" actual emissions are siways the baseline. See, e.g., 40 GFR 51.18[j](1)[vi]. See also Appendix B for detailed discussion of "actual" and "allowable" emissions.

See n. 6 and 7 above.

to demonstrate attainment. In some areas, SIP demonstrations were based merely on qualitative judgments (e.g., "example region" approaches). Baseline emissions for sources in all these otherareas must generally be calculated using the lower of actual or allowable values for each baseline factor. However, states may approve, on a case-by-case basis, use of allowable values in calculating baseline emissions, where they explicitly demonstrate that such use comports with reasonable further progress and will neither create a new ambient violation nor delay the planned removal of an existing violation. Such demonstrations require full Level III modeling and must be submitted to EPA as case-by-case SIP revisions.

EPA deems designated Rural Ozone Nonattainment Areas to possess acceptable demonstrations of attainment provided they have an approved new source review rule and require RACT controls for all major VOC sources for which EPA has issued Control Technique Guidance (CTG) documents. (See, e.g., 43 FR 21673 (May 19, 1978)). Because these areas' nonattainment is generally caused by emissions from sources in a nearby urban area, control of emissions from that area is expected to bring the rural area into attainment. Put differently, EPA does not require rural areas to cure problems due to transport from pollution-generating areas which rural areas cannot control. However, EPA believes that further clarifications are required for bubbles in these areas.

Sources involved in such bubbles must use RACT emission limits in calculating baseline emissions, if subject to Group I or II CTGs under the EPA approved SIP for these areas. Sources subject to other SIP emission limits must use those limits in calculating baseline emissions. Other baseline factors must also be consistent with the applicable SIP requirements, and will generally be actual historical values. Where a source is not regulated by the EPA-approved SIP its baseline will be actual emissions in the year EPA approved the Part D plan for the affected rural area. In those approvals, EPA presumed that controls for sources in the upwind urban areas. as well as RACT on GTC sources in the rural area, would bring about attainment in the rural area, and that non-CTG sources in the area, unless regulated by the SIP, could continue to emit at actual, non-RACT levels without interfering with attainment in those areas. See also 43 FR 21673 (May 19, 1978).

b. Special Progress Requirements for Bubbles In Primary Nonattainment Areas Which Need But Lack Approved Demonstrations of Attainment. EPA will approve bubbles which are consistent with the attainment needs of these areas, which produce a net air quality benefit, and which therefore secure interim progress towards attainment.¹⁰

(1) Objective Tests For All Applications. Bubble applications in primary nonattainment areas which require but lack approved demonstrations of attainment will be deemed to produce a net air quality benefit and will be processed for approval if they:

(a) Use lowest-of-actual-SIP-allowable or RACT-allowable emissions baselines. Such baselines are calculated using

(i) The actual emission rate, the SIP or other federally enforceable emission limit, or the applicable RACT emission limit, ¹¹ whichever is lower, to compute the baseline for each source involved in the trade. This baseline factor shall be determined as of the date of the source's application to bank or trade, whichever is earlier.

(ii) The lower of actual or allowable capacity utilization and hours of operation to compute the baseline for each source involved in the trade. Actual values shall generally be based on the two years of operation preceding the application to bank or trade, unless another two year period is shown to be more representative of actual operations. Sources which shut down prior to the application to bank or trade have zero emissions, and therefore no credit is available.

For sources which banked or sought to bank credit in these nonattainment areas prior to publication of today's notice, the "date of application to bank" is the date of written application to the states to bank credit through a formal bank or informal banking mechanism for use in future trades. For sources which seek to bank credit in these areas following publication of today's notice, the date of application to bank will be the date of written application to the : state to *make a reduction state- 👑* enforceable through or concurrent with use of a formal bank or informal banking mechanism

(b) Using baseline emissions defined above, meet applicable de minimis,

10 While not all of today's new requirements for bubbles in these areas are strictly "baseline" matters, all basic requirements for these bubbles are set out here for simplicity. New requirements also apply to generic bubble rules in these areas. See Section II.D below.

Level I, Level II or Level III modeling tests for ambient equivalence, as appropriate.

(c) Produce a substantial net reduction in actual emissions (i.e., a reduction of at least 20% in the emissions remaining after application of the baselines specified above).

(d) Are accompanied by the assurances of consistency with ambient progress and air quality planning goals specified in section I.A.1.b.(3) below.

- (2) Where These Special Progress Requirements Will Apply. The following primary nonattainment areas need but lack approved demonstrations, and bubbles within them are therefore subject to the special progress requirements in section I.A.1.b.(1) above:
- (a) Areas that are designated primary non-attainment areas under section 107 for the pollutant involved in the trade and which failed to submit a 1979 Part D attainment demonstration or which submitted one that has not yet received full EPA approval. This includes primary total suspended particulate (TSP) nonattainment areas which submitted a SIP that did not include an actual demonstration of attainment but still received EPA approval (i.e., a "RACT plus studies" SIP).
- (b) Extension nonattainment areas which failed to submit a 1982 SIP demonstration, or which submitted one that has not yet received EPA approval. Also included are those ozone nonattainment areas that are unable to demonstrate attainment by 1987, unless a demonstration of attainment for the area is subsequently approved by EPA.
- (c) Areas that have received either: (1) A section 110(a)(2)(H) notice of deficiency based on failure to attain or maintain the National Ambient Air Quality Standards (NAAQS), in the form of a SIP call or a new section 107 or 171(2) nonattainment designation; or (2) a notice of failure to implement an approved SIP.
- (d) Areas which received notice from EPA that they have failed to meet conditions in their EPA-approved SIPs, including commitments to adopt particular regulations by specified dates. The one exception would occur where the only portion of the SIP (including the attainment demonstration) lacking full approval is the inspection/maintenance provision for mobile sources. In these circumstances, stationary-source bubbles will be treated as if the area had a fully approved SIP.
- (e) Any area that does not have an EPA-approved or EPA-promulgated plan for lead.

^{1.} Where an emission limit for a source involved in the trade has not previously been approved by EPA as RACT, a baseline reflecting a negotiated RACT emission rate must be agreed upon by the source, state and EPA for the source in question.

(3) State Assurances. EPA will not approve a bubble in primary nonattainment areas needing but lacking approved demonstrations unless the state provides assurances that the proposed trade will be consistent with its efforts to attain the ambient standard. The state must make the following representations to the EPA Regional Office in or with the letter formally submitting the bubble as a revision to the SIP:

(a) The resulting emission limits are consistent with EPA requirements for ambient air quality progress, as specified in Section I.A.l.b.(1) above.

(b) The bubble emission limits will be included in any new SIP and associated control strategy demonstration.

(c) The bubble will not constrain the state or local agency's ability to obtain any additional emission reductions needed to expeditiously attain and maintain ambient air quality standards.

(d) The state or local agency is making reasonable efforts to develop a complete approvable SIP and intends to adhere to the schedule for such development (including dates for completion of emissions inventory and subsequent increments of progress) stated in or with the letter formally submitting the bubble or previous such letters.

(e) The baseline used to calculate the bubble emission limits is consistent with the baseline requirements in section

I.A.l.b.[1] above.

These state assurances must be made in writing by the appropriate state or local authority (e.g., State Air Director, Air Pollution Control Board, or Legislative Committee). EPA will not second-guess such state representations, provided: (1) They are a substantial test applied by the state to each bubble, and (2) the state has explained how the proposed bubble is consistent with the area's projected attainment strategy. Nor will EPA examine, or expect states to examine in making such representations, any specific source's subjective motivation in making claimed reductions.

(4) Treatment of Pending Bubble Applications. "Pending bubbles" means those which are currently pending at EPA Regions or Headquarters, as well as any bubble applications which were. formally submitted to EPA Regions under the 1982 policy but returned without action because final bubble criteria had not yet been issued; In primary nonattainment areas needing but lacking demonstrations, these bubbles should contribute to progress towards attainment. "Progress towards attainment" means some extra reduction beyond equivalence, with the lowest-ofactual-SIP-allowable-or-RACT-

allowable emissions baseline applied as of the time applicants originally sought credit. In other areas these bubbles must show that applicable standards, increments, and visibility requirements will not be jeopardized. Pending bubbles which meet these tests and all other applicable requirements of the 1982 policy will be processed for approval.

Pending bubbles may undergo limited modification by the states or sources which submitted them in order to meet the new requirements outlined above (e.g., it may be necessary to recalculate the applicable baseline emissions of certain bubbles in nonattainment areas needing but lacking demonstrations and to reconfigure those bubbles in response to the reduced credit which may be allowed under the new more stringent requirements). However, pending bubbles which prior to final EPA approval are changed to the extent that they no longer reasonably resemble the original proposal qualifying for pending. bubble status (e.g., those which are substantially expanded in scope or changed to involve primarily different sources of emission reduction credit) will be considered new bubbles subject to all of the requirements of today's notice.

Bubble applications which were submitted to EPA Regions by states, but which were withdrawn (or rejected) as inadequate under the 1982 policy, are not "pending." These bubbles, if reformulated and resubmitted, must meet all requirements of today's notice applicable to new bubble applications.

(c.) No Double-Counting of Reductions. At minimum, to be considered surplus an emission reduction cannot already have been claimed as part of a demonstration or updated emission inventory by any state air quality plan or have been used by the source to meet any other regulatory requirement. Double-counting of reductions-granting credit for the same emission reduction, e.g., once to the state as part of its nonattainment SIP demonstration or PSD baseline, and a second time to a source for use in an emissions trade, must be addressed in the following situations.

(1) Crediting Pre-Existing Emission Reductions. In nonattainment areas credit generally cannot be granted for emission reductions made before monitoring data is or was collected for use in current SIP planning. Because monitored ambient levels already reflect these emission decreases, such decreases may have been assumed in calculating the further reductions needed to attain ambient standards. States must clearly show that the existence of these reductions has been

accounted for in their calculations in order to gain credit for these reductions.

States should also clearly identify the inventory baseline date before which reductions will not qualify for credit. The earliest acceptable baseline date would normally be the year of the most recent emissions inventory used in planning Part D SIP revisions under the Clean Air Act Amendments of 1977.12 Where emissions inventories or other data are updated for tracking RFP and correction of Part D SIPs, the new inventories must treat banked emissions reductions as current actual emissions "in the air" at the source where created, so that corrected SIPs do not inadvertently rely on these prior reductions and cause them to be lost for use. If inventories do not treat these banked emissions as "in the air," or if they are otherwise relied upon for SIP planning purposes, such reductions can no longer be credited for trading.15

In primary nonattainment areas which need but lack approved demonstrations of attainment, emission reductions achieved prior to application to bank or trade (whichever is earlier) will not be credited for use in bubbles. See section LA.1.b.(1) above. Regardless of whether they meet other baseline tests, such reductions were not reasonably elicited by the opportunity to trade in a practical, objective sense determined by timing, and cannot be used to meet existing-source SIP requirements absent a demonstration.14

In attainment areas, reductions at major stationary sources which commenced construction after January 1, 1975 may be able to qualify for credit whether such reductions occurred before or after the PSD baseline triggering date. See 40 CFR 51.24[b](13](ii) (45 FR 52719-20; August 7, 1980). Other emission reductions (e.g., at minor sources) cannot qualify for credit where the PSD baseline date is or has been triggered and such reductions occurred prior to the trigger date, unless these reductions are not assumed in the PSD baselines. Since banked emission

²º For baselines and base year dates in rural ozone nonattalament areas, see section LA.1.a.

¹³ In order to help avoid such results, states may wish to make sources responsible to report banked emission reductions when responding to the states' inventory reporting requirements.

¹⁴ In all nonattainment areas, emission reductions achieved by shutting down or permanently curtailing an existing source prior to application for, a new source permit cannot generally be used as offsets. See 40 CFR 51.18(i)(3)(ii)(c). EPA proposed on August 25, 1983 to remove this restriction. See 48 FR 38742, 38751. However, it remains in effect unless and until EPA takes final action on that proposal.

reduction credits must be considered to be "in the air" for all planning purposes, if the baseline date is triggered before banked credits are actually used, such banked credits will be considered as part of the baseline and will not consume increment when used in an emissions trade.

In attainment areas where the PSD baseline has not been triggered as of the date EPA or the permitting authority takes relevant final action on the trading transaction, reductions below current SIP or permit limits generally may be used without special restrictions in bubble or banking transactions, provided they are otherwise creditable and there is assurance that NAAOS will not be violated due to any potential increase in actual emissions. 15

(2) Crediting Reductions From Shutdowns. Shutdowns are generally treated for purposes of emissions trading like any other type of emissions reduction. 16 For example, the same limitations on pre-existing reductions (section I.A.1.c.(1), above) apply to shutdowns where they apply to any other type of emissions reduction. However, under current federal New Source Review requirements for major sources, shutdowns that occur prior to application for a new source permit can be used as offsets only for equipment replacing on-site productive capacity which was shut down.17

Shutdowns are of general concern with respect to double-counting where a state may have relied directly or indirectly on shutdowns in a SIP demonstration of attainment. (Where a primary nonattainment area needs but lacks an approved demonstration of attainment, the progress requirements of subsection I.A.1.b. above apply to bubbles involving shutdowns as well as to bubbles involving other types of emission reductions. These requirements generally bar use of reductions from shutdowns which occurred before application to bank or trade.)

In general, a state may credit reductions from shutdowns if the SIP has not already assumed credit for these reductions in its attainment strategy. So long as reductions from shutdowns have not already been counted in developing an area's attainment strategy, they are a potential source of surplus reductions.

Some SIPs assumed a set quantity of reductions from the overall difference in emissions due to new plant openings and existing plant shutdowns. These SIPs incorporated into their attainment strategy a net "turnover" reduction in emissions because new sources are generally cleaner than those that shut down. Double-counting would occur if a specific source received credit for reductions from such a shutdown, since that reduction was already assumed in the SIP's demonstration of attainment.

These states have at least two options for granting sources credit for shutdowns without this kind of doublecounting. First, they may reexamine any "turnover" reductions relied on in their SIP and decide not to take credit for these reductions. This approach would require EPA approval of a revised demonstration of attainment or a SIP revision showing consistency with the existing demonstration. Such an action can be processed by EPA concurrently with a bubble or generic rule. Alternatively, these states may allow credit only after the total quantity of shutdown reductions relied on in the SIP has occurred.

In all cases where net turnover reductions have been quantified and relied on as part of attainment demonstrations, states which seek to grant shutdown credit for use in trading must be prepared to show clearly and unequivocally on the basis of SIP documents or tracking that the credit has not been double-counted or otherwise relied on for SIP planning purposes.

(3) Use of Banked Credits From Shutdowns or Other Actions for Bubble Purposes. 18 In primary nonattainment areas which need but lack approved demonstrations, ERCs intended for bubble purposes may generally be banked and used with the same lowestof-actual-SIP-allowable-or-RACTallowable baseline used for other bubble transactions.19 This baseline. should be applied as of the time banked credit is or was initially sought, with the 20% reduction applied to both sources in the trade if these credits are later used for bubbles. The lowest-of-actual-SIPallowable-or-RACT-allowable baseline plus the 20% discount will also apply to the source using that credit in a bubble, as of the time of such subsequent bubble application.

Banked credits produced by shutdowns and curtailments may be used for bubbles in these areas on the same terms as use of other banked credits, provided their use is subject to stringent qualitative review to assure technical, legal, and programmatic consistency with SIP planning goals (e.g., avoidance of double-counting and "shifting demand"). This review will not examine any source's motivation in shutting down a facility or curtailing production. However, the source must show that a written application was submitted to make the shutdown/ curtailment state-enforceable through or concurrent with use of a formal bank or informal banking mechanism, prior to the time the shutdown/curtailment occurred. Submittal of such an application to make proposed reductions from a shutdown or curtailment stateenforceable will constitute the relevant definition of "application to bank" for timing purposes related to the evaluation of bubble credits in these nonattainment areas (see section I.A.1.b(1) above).20 The shutdown/ curtailment must be made federally enforcement when it is used in a bubble.

Use for bubble purposes of nonbanked credits resulting from current shutdowns or curtailments will be allowed in these areas if the lowest-of-actual-SIP-allowable-or-RACT-allowable baseline plus the 20% additional reduction are applied to determine the amount of credit.

No special baseline or additional reduction requirements will apply to these credits in other areas.

d. Multiple Use of ERCs. Once surplus reductions are credited, states must prohibit their multiple use. The same pound of reduction must not be simultaneously banked by two different entities or used to satisfy two different regulatory requirements at the same time. To prevent these results, states must adopt an ERC registry or equivalent means of accounting for the creation, banking, transfer, or use of ERCs. See Section I.C.6 below. States must also ensure that past reductions used in bubble, netting or offset transactions are not later credited in newly-established banks.

¹⁶ ERCs used for netting and offset purposes (including those derived from banks) must comply; with relevant NSR and PSD requirements.

¹⁸ For further discussion related to the use of banked credits in these nonattainment areas, see section I.C.9. below.

¹⁵ However, reductions at sources other than major stationary sources on which construction commenced before January 1, 1975 may not be used to balance increases at such pre-1975 major sources.

¹⁴ For use of banked shutdown credits for bubbles in primary nonattainment areas needing but lacking approved demonstrations, see section I.A.1.c(3) below:

¹ See n. 14 above.

^{**}O For sources which banked or sought to bank credits from shutdowns or curtailments in these nonattainment areas prior to publication of today's notice, written evidence must be provided showing either that an application to deposit the credits in a formal bank was submitted to the state prior to the time the shutdown/curtailment occurred, or that the state acknowledged, before or at the time the shutdown/curtailment occurred, both the existence of that shutdown/curtailment, and the source's intent to use the resulting credits in a future trade.

e. Reductions from Uninventoried Sources. Sources not included in an area's SIP emission inventory may apply for emission reduction credit. Such applications may enhance state air quality planning capabilities. Where such sources are already subject to SIP emission limits, those emission limits must be used as the basis for determining emission reduction credit, unless a more stringent baseline would normally be required (see sections I.A.1.a. and I.A.1.b. above).²¹

In attainment areas states may grant bubble credit to sources regardless of whether they have been included in an inventory, based on use of actual values for each of the three baseline factors, so long as those sources are not subject to lower allowable values for those factors. Allowable values, when higher than actual values, may alternatively be used , in calculating the baseline, provided sources show that any resulting potential increase in actual emissions does not jeopardize applicable ambient standards, PSD increments, or visibility. (See 40 CFR \$1.24 and 52.21 for specific requirements concerning PSD increments and visibility.]

In nonativinment areas with approved demonstrations of attainment, whether sources not on the inventory can create bubble credit will turn on how the approved demonstration of attainment was designed. Some states first monitored ambient values to determine required reductions for the SIP, then required a proportionate reduction in emissions from certain general source categories (i.e., a "rollback") in order to attain. States may grant credit for reductions from uninventoried sources in these areas in at least two ways.

(1) They could require the average of percentage reductions imposed on all inventoried sources, and grant credit only for reductions in excess of that amount. In this case, baseline emissions should be based on the percentage reduction in actual emissions for the year in which the baseline data for the rollback was gathered. Where such sources are already subject to lower SIP emisssion limits, those limits must be used to determine credit.

(2) They could require the source to use a RACT emission rate and the lower

The Where a given source was not subject to mandatory RACT regulation due to the fact that it was not included in the inventory (e.g., where no RACT regulation for a source category was adopted because the state, unaware of the source, issued a declaration that no source existed in that source cuttgory, or where an uninventoried, non-CTG source of greater than 100 TPY emissions is located in an oxone extension area), a baseline reflecting a negotiated RACT emission rate must be agreed upon between the source, the state and EPA for the

uninventoried source in question.

of actual or allowable capacity utilization and hours of operation to calculate the baseline, and grant credit only for reductions below that baseline. This RACT baseline would have to result in a reduction at least as great as the percentage reduction assumed in the rollback. As discussed above, where sources are already subject to lower SIP emission limits, those limits must be used as the basis for determining credit.

Other areas developed SIP demonstrations based on dispersion models rather than area-wide proportionate reductions. To the extent these SIPs demonstrated ambient attainment through reductions required from specific inventoried sources. incorporated emissions from uninventoried sources in the background. or area source totals, and projected attainment by modeling the effects of those reductions, reductions from sources not on the inventory can be credited using the lower of actual or allowable values for each of the baseline factors.

In primary nonattainment areas which need but lack an approved demonstration of attainment, the progress requirements of Section I.A.1.b. above apply to bubbles which seek to use credit from uninventoried sources. These include a lowest-of-actual-SIP-allowable-or-RACT-allowable emissions baseline. Where a RACT emission limit has not already been adopted for an uninventoried source, such a limit must be agreed upon between the source, the state and EPA before the baseline can be determined.

States which grant credit from uninventoried sources not subject to permits, offset requirements, or enforceable production constraints should address the possibility that reductions from one such source may be followed by equal or greater increases from similar nearby sources due to shifting demand. These states must clearly demonstrate that ERCs from the uninventoried source are surplus and permanent. Interested parties should be aware that some uninventoried sources may not readily meet these tests. For example, reductions resulting from shutdown of a dry cleaner will generally not be creditable, unless the state subjects such sources to offset requirements or other measures addressing this problem. However, reductions due to improved control at such a dry cleaner would generally be creditable, since shifting demand is not implicated.

Baselines for Open Dust Trades. Fugitive dust regulations generally consist of generic work practices and operating procedures. The specifics of a fugitive dust program are generally contained in an operating permit or fugitive dust program. It is generally not possible to identify the appropriate emissions baseline from a general state open dust regulation. Therefore, for any open dust trade a negotiated RACT baseline must generally be agreed upon between the source, state and USEPA for the open dust source in question.

2. Alternative Emission Limits Must Be Enforceable

Each bubble, netting, offset or banking transaction must be approved by the state and must be federally enforceable at the time an ERC is used. Reviewing authorities may be able to use existing procedures (including preconstruction permits issued by states pursuant to 40 CFR 51.18, 51.24, 51.307 or 52.21) or EPAapproved generic rules to make reductions federally enforceable. The former possibility exists because permits issued under a federallyapproved new source review program are federally enforceable. However, many preconstruction permit programs have been federally approved strictly for sources subject to NSR, and therefore may not be capable of use for transactions that do not trigger NSR requirements, or that involve sources not already subject to precenstruction

With respect to the latter possibility, any enforceable compliance instrument imposing emission limits within the scope of an EPA-approved generic rule is deemed federally enforceable as part of the SIP.

Emission limits established by a trade must be incorporated in a compliance instrument which is legally binding and practicably enforceable by EPA.

Trades involving individual SIP revisions automatically satisfy this requirement. For trades under generic rules a compliance instrument culd take the form of an agreement between the source and state, a preconstruction ... permit (if one is applicable), a consent decree, a state operating permit, or any other compliance instrument judicially enforceable by the state. To assure state enforceability, the generic rule should state that sources subject to these instruments are required to meet the emission limits contained therein. Such instruments would then automaticallybecome federally enforceable via an EPA-approved generic rule, provided ... they are issued as, or part of, the compliance instrument specifically required by the generic rule,

Compliance instruments must ensure that enforcement personnel do not have

effect by one pound of decreased emissions within the same broad geographic area, and the precise location of those increases and decreases ordinarily does not matter. For VOC and NO, such "pound-forpound" trades may therefore be treated as equal in ambient effect where all sources involved in the trade are located in the same control strategy demonstration area or the state otherwise shows such source to be sufficiently close that a "pound-forpound" trade can be justified.25

Particulate Matter, SO₂, CO or Lead Trades. Ambient considerations are critical for trades involving emissions of sulfur dioxide, particulates, carbon monoxide, or lead, whose air quality impacts may vary with where the emission increases and decreases occur. For example, one hundred pounds of ERCs for such a pollutant created at one source may balance the ambient impact of a 100-pound increase at a source nearby, but may only balance the effect of an 80-pound increase at a source further away. In addition to distance between sources, plume parameters. pollutant characteristics, meteorology, and topography will also affect the ambient impact of such trades.29

This Document authorizes the use of four alternative methods of determining ambient equivalence, with the degree of required modeling linked to the likely ambient impact of the proposed trade. The following sections describe use of these alternatives to evaluate for approval many bubble or offset trades without full scale ambient dispersion modeling.30 Use of these alternatives under generic rules is discussed in section II below.

elevated plumes.

(1) De Minimis. In general no modeling is needed to determine the ambient equivalence of trades in which applicable net baseline emissions do not increase 31 and in which the sum of the

26 The discussion in this paragraph does not

29 The ambient equivalence considerations

elevated plumes. See n. 28 above.

apply to NO, trades involving visibility impacts of

elaborated in this and following paragraphs also apply to NO, trades involving visibility impacts of

30 Modeling is generally not required for new

resources where adverse emission or ambient

that in some circumstances modeling may be

nonattainment area seeks to employ allowable

prior to the trade. Where a bubble in a

impacts from changes at a source are extremely

unlikely. See. e.g., 45 FR 52677-78 (August 7, 1980).

31 Interested parties should, however, be aware

required to justify using certain emissions baselines.

values greater than corresponding actual values in

such allowable values are not shown to be used or

the calculation of baseline emissions, and where

source netting, whose purpose is to avoid expending

emissions increases, looking only at the increasing sources, totals less than 25 tons per year (TPY) for particulate matter, 40 TPY for sulfur dioxide, 100 TPY for carbon monoxide, 40 TPY for NO, (where visibility impacts are of concern), or 0.6 TPY for lead, after applicable control requirements. Such trades will have at most a de minimis impacts on local air quality because no net increase in emissions will be produced and the amount of emissions being shifted is less than designated significance levels in associated EPA regulations (see, e.g., 40 CFR 51.18(j)(1)(x) and 51.24(b)(23)(i)).32

- (2) Level I. In general no modeling to determine ambient equivalence is needed it:
- (a) The trade does not result in an increase in applicable net baseline emissions; 33
- (b) The relevant sources are located in the same immediate vicinity (within 250 meters of each other):
- (c) No increase in baseline emissions occurs at the source with the lower effective plume height as determined under EPA's Guidelines on Air Quality Modeling;

Alaph in

used or reflected in an approved demonstration, a emissions for the pre-bubble case will be required unless, for bubbles processed as case-by-case-SIP revisions, the Region determines that additional standards or increments. Where alloweble values are used to calculate baseline emissions for such a case-by-case-SIP revision bubble in an attainment

to protect PSD increments.

Where allowable values higher than actual values are not shown to be used or reflected in an approved demonstration, states that wish to authorize their use in attainment areas under generic bubble rules must either state, or develop replicable procedures addressing, background values and how they will be evaluated in conjunction with the actual changes in ambient concentration predicted by the Level II analysis. These steps must be sufficient to protect standards and increments and must be approved by EPA as

For further discussion regarding calculation of baseline emissions and related modeling requirements, see Section LA.1, above and Appendix B below.

imply that new sources and modifications need not meet all applicable requirements, including those specified under 40 CFR 51.18 or parallel EPAapproved state rules.

33 See n. 31 above.

- (d) No complex terrain 34 is within the area of significant impact of the trade 35. or 50 kilometers, whichever is less; 36
- (e) Stacks with increasing baseline emissions are sufficiently tall to avoid possible downwash situations, as determined by the formula described at 50 FR 27892 (July 8, 1985) (to be codified at 40 CFR Part 51); and
- (f) The trade does not involve open dust sources.

For such Level I trades it can reasonably be assumed that "pound-forpound" trades will produce ambient effects equivalent to those which EPAapproved air quality models would predict. Therefore modeling to determine ambient equivalence is not required.

Trades between fugitive process sources and stack sources (i.e., processfor-process or process-for-stack) can acceptably be evaluated and approved under Level I as long as the maximum distance between any emitting sources in the trade is less than 250 meters and all other Level I criteria are met.

(3) Level II. Bubble trades which are neither de minimis nor Level I may nevertheless be evaluated for approval based on modeling to determine ambient equivalence limited solely to the impacts of the specific emission sources involved in the trade, if there is no increase in applicable net baseline emissions,37 if the potential change in emissions before and after the trade will not cause a significant increase in pollutant concentrations at any receptor for any averaging time specified in an applicable ambient air quality

34 Complex terrain is broadly defined by EPA as

terrain greater in height than the physical stack height of a source. For bubble purposes, this

definition is applicable only to sources with

*5 For guidance on determining "area of

significant impact." see Appendix E below. The graph in Appendix E, or EPA-approved alternative

approaches, may be incorporated in generic rules to

make this aspect of Level I analysis replicable and operational. See Section II below.

defined above may not be exempt from modeling

requirements specified above, does not present a

and emission rates, distance between stacks and

elevated features, rate of topographical rise, and

the particular geographic area. States are encouraged to work with EPA to determine where

and how such additional criteria can be developed

other considerations which may be appropriate for

problem of potential plume impaction and may be approved under a Level I analysis. These additional criteria would include such factors as source height

under a Level I analysis. However, EPA will

complex terrain, but otherwise meeting the

Generally, trades involving complex terrain as

consider on a case-by-case basis additional criteria for determining whether a particular trade involving

increasing baseline emissions.

bubble in an attainment area seeks to employ allowable values greater than corresponding actual values in the calculation of baseline emissions, and where such allowable values are not shown to be Level II modeling analysis (see below) using actual technical support is necessary to protect applicable area where the PSD baseline has been triggered, the Region will require the technical support necessary

part of a generic rule.

32 This paragraph should not be construed to

and applied to individual trades.

³⁷ See n. 31 above. ..

reflected in an approved demonstration, a full Level III modeling analysis will be required. Where a

to test simultaneously every emission source involved in a trade. This generally requires source-specific emission limits. However, states may use pre-specified combinations of source-specific emission limits which are enforceable. States may also use an overall limit that applies to a group of emission sources which can be evaluated simultaneously, where there is a reliable and enforceable method of determining compliance (e.g., through production records, input factors, or other indirect means, or through use of a continuous emissions monitor.) See, e.g., 45 FR 80824, December 8, 1980.

The compliance instrument should also specify applicable restrictions on hours of operation, production rates or input rates; enforceable test methods for determining compliance; and necessary recordkeeping or reporting requirements. To be enforceable, these limits must state the minimum time period over which they will be averaged (e.g., lbs/hour, lbs/MBtu averaged over 24 hours, production rate/day).22 Unless such enforceable restrictions are or have been placed on capacity utilization and hours of operation, or on overall emissions, maximum values for capacity utilization and hours of operation must generally be used in calculating posttrade emission limits and in ambient modeling of the post-trade case.

3. All Reductions Must Be Permanent

All emission increases in a trade must be compensated by emission reductions that are permanent (i.e., assured for the life of the corresponding increase. whether unlimited or limitied in duration).23 This requirement may generally be met by enforceable permit limitations confirming the amount and duration of the decrease. If reductions with a limited life are used, the life of the trade must be limited accordingly, so that the trade will automatically terminate with expiration of those reductions. The date of termination may be specified in the notice of approval. Alternatively, source(s) may agree to provide formal written notification to EPA and the state before such reductions may be discontinued and the trade terminated.

Permanence may present special but resolvable "shifting demand" problems for reductions from small sources not subject to permits, offset requirements,

*** Many state permits or permit procedures may need revisions to assure that they provide adequate compliance information. However, such revisions need only occur on a case-by-case basis as individual trades are approved. or enforceable production constraints. States which grant credit from these source categories must address the possibility that reductions from one source may result in equal or greater increases from similar nearby sources.²⁴

In order to use, in a bubble trade. emission reduction credits derived from reductions in operations beyond those consistent with the baseline (e.g., areduction from 3 to 2 workshifts), a source must have its preconstruction permit or other federally enforceable compliance instrument altered to reflect the curtailment in production records reflecting such curtailment (see section I.A.2 above].25 Future increases in production beyond the permit amount may trigger new source review or require approval of a new emissions trading application which includes compensating emission reductions. As with other types of noncompliance, any source which exceeds permitted production limits would be subject to potential noncompliance penalties.

4. All Reductions Must be Quantifiable

Before an emission reduction can be credited it must be quantified. This generally means the state must establish a reliable basis for calculating the amount and rate of the reduction and describing its characteristics.

a. Calculating the Reduction. To quantify the amount of emission reductions eligible as ERCs, emissions must be calculated both before and after the reduction (i.e., assuming the post-reduction limits). Although many different methods of calculation are available (e.g., emission factors, stack tests, monitored values, production or process inputs), the same method and averaging time should generally be used to quantify emissions both before and after the reduction.²⁶

b. Describing the Reduction. If an ERC will be used at the time of creation, only characteristics necessary to evaluate that proposed use need be described. Where the ERC will be banked and its eventual use is not yet known, a more detailed description should be provided in order to facilitate its later evaluation for a particular use.

B. Using Emission Reduction Credits

This section explains the substantive and procedural principles applicable to use of ERCs, primarily for existing-source bubbles. Many of these principles also apply to use of ERCs in netting or offset transactions. However, those transactions are governed by EPA's New Source Review regulations (40 CFR Parts 51 and 52) or state rules reflecting them.

1. Substantive Principles for Using ERCs

a. Emissions Trades Must Involve the Same Pollutant. The Clean Air Act requires states to develop separate plans to attain and maintain the national ambient air quality standard for each criteria pollutant. Thus, all individual bubble, netting or offset transactions must involve the same pollutant. Only reductions of particulates can substitute for increases of particulates, reductions of SO₂ for increases in SO₂, etc.

b. All Uses of ERCs Must Satisfy Ambient Tests. Because the Clean Air Act requires that all areas throughout the country attain and maintain ambient standards, protect applicable PSD increments, and protect visibility in mandatory Federal Class I (PSD) areas, bubbles must generally be equivalent in ambient effects to the baseline emission levels which they replace.27 In nonattainment areas, use of ERCs cannot create a new violation of an ambient standard or delay the planned removal of an existing violation. In attainment areas, use of ERCs cannot violate an increment or ambient standard. Use of ERCs in either type or area cannot adversely affect visibility in any mandatory Federal Class I area.

The ambient effect of a trade generally depends on the dispersion characteristics of the pollutant involved.

VOC or NO_x Trades. Trades involving VOC or NO_x need consider only emissions. Since the ambient impact of these pollutants is areawide rather than localized, one pound of increased emissions will be balanced in ambient

²³ Permits or other compliance instruments for limited-duration trades must clearly state such limits.

²⁴ States can address such potentially "shifting demand" among such sources as dry cleaners, paint shops and gas stations by, for example (1) prohibiting creation of ERCs due to shutdown or curtailment of such small sources; (2) limiting ERCs from small sources to categories determined not to be subject to shifting demand; or (3) requiring offsets for increases in emissions from such small sources. Cf. section I.A.I.e. above.

^{**} Under EPA's NSR regulations, prior curtailments are subject to the same restrictions for offset purposes as prior shutdowns. See n. 14 above.

in general, states may not approve VOC trades in ozone nonattainment areas where such trades would incorporate averaging times longer than one day. However, where VOC sources show that daily VQC emissions cannot be determined or application of RACT is not technically or economically feasible on a daily basis, longer averaging times may be permitted. See Appendix D.

²⁷ In primary nonattainment areas needing but lacking an approved demonstration of attainment, bubbles must achieve a net air quality benefit. See Section I.A.I.b. above.

one or more exceedances of the Level II

significance values. While this analysis

will be limited in terms of geographic -

modeling requirements for a full Level III analysis, including consideration of

geographical area. In many situations.,

this approach may permit the receptor

area of impact. Because of the unique

area to be smaller than the trade's entire

nature of each situation, the appropriate

scope, it must otherwise meet the

all sources affecting the limited

limited geographic area must be determined in accord with EPA

standard,38 and if such an analysis does not predict any increase in ambient concentrations in a mandatory Federal Class I area. so The change in concentration from the before-trade case to the after-trade case must in general be modeled using refined models such as MPTER and ISC for each appropriate averaging time for the relevant national ambient air quality standards for each receptor, using the most recent full year of meteorological data.40

(4) Level III. Full dispersion modeling considering all sources affecting the trade's area of impact is required to determine ambient equivalence if applicable net baseline emissions will increase as a result of the trade,41 or if the trade cannot meet criteria for approval under de minimis, Level I or

Level II.

However, a geographically limited Level III analysis may be used in some cases where a Level II analysis predicts

guidelines on modeling, and through case-by-case evaluation. Bubble trades are approvable under either type of Level III analysis if they do not cause a new violation of NAAQS or PSD increments, significantly contribute to or delay the planned removal of an existing violation, or adversely affect visibility in mandatory

Federal Class I areas. 42

This three-tiered modeling approach is both reasonable and conservative. It will assure that the ambient impact of trades is at least equivalent in effect to original SIP emission limits, while conserving government resources and shortening approval times for many

individual trades.

c. Bubbles Should Not Increase Applicable Net Baseline Emissions. Ordinarily, bubbles may not result in an increase in applicable net baseline emissions. Such a bubble would require a case-by-case SIP revision, and may only be approved based upon a combined Level III and Level II modeling analysis (i.e., an analysis sufficient to show that all applicable requirements of a full Level III analysis (as described above) are met, and that the bubble would not result in any exceedance of significance values specified for a Level II analysis at any receptor for any averaging time specified in an applicable ambient air quality standard. 13

.38 In determining "significant" impact for Level II bubble trades, states may use the following significance values to identify trades whose potential ambient impact need not be further evaluated before approvab

38 However, a bubble ordinarily may not be approved under Level II where other evidence related to background-i.e., formally validated ambient air quality monitoring data or previously established background values—clearly indicates that the bubble would create a new violation of an ambient standard or PSD increment, or would delay the planned removal of an existing violation.

42 Where a Level III modeling analysis submitted to support a voluntary trading application indicates an exceedance of an ambient requirement, EPA will review such applications on a common-sense caseby-case basis, seeking to encourage disclosure of such exceedances and avoid undue delay of decisions on the trade, while adequately ensuring protection of public health, the integrity of the SiP process (including the state's prerogatives in determining how to remedy nonattainment), and the prompt and effective remedy of any condition of nonattainment. In its review, the Agency will take into account such factors as the degree of exceedance, the contribution of the trading sources and the trade itself to the exceedance, and the degree to which such sources would be part of any solution remedying the exceedance.

43 Where a proposed bubble increasing net baseline emissions cannot meet this test of ambient equivalence, it may not be approved as a bubble under the Emissions Trading Policy. However,

Where such a bubble is proposed in a nonattainment-area, the state must: demonstrate that the trade is consistent with the progress demonstration under an approved demonstration of attainment, revise its EPA-approved progress demonstration as part of the proposed SIP revision, or otherwise show (e.g., by modeling and any necessary compensating emission reductions) that the proposed trade comports with the EPA-approved emissions and ambient progress demonstration.

d. Bubbles Should Not Increase Emissions of Hazardous or Toxic Air Pollutants. Under the Clean Air Act all sources must meet applicable section 112 (NESHAPs) requirements for control of hazardous air pollutants. Sources may neither use a bubble to meet these requirements, nor increase emissions beyond the levels they prescribe. Where a source wishes to generate or use emission reduction credit for a criteria pollutant, and where a NESHAPs pollutant is part of the criteria pollutant stream, the emissions baseline for emissions of the hazardous pollutant from that source would be the lower-ofactual-or-NESHAPs-allowable emissions of that pollutant, applied as of the time of application for credit. Where EPA has proposed to regulate a source category for emissions of a pollutant under section 112, but has not yet promulgated a NESHAP for that source category, the proposal will serve as the interim guideline for evaluating the potential effects of any proposed emissions trade involving sources to which the proposed standard would apply. The emissions baseline for such a pollutant emitted by a source subject to the proposed NESHAP would be lowerof-actual-or-proposed-NESHAPsallowable emissions for that pollutant.

In general, such trading proposals will be approved so long as they (1) result in emission limits for each source emitting the relevant pollutant which are equivalent to or less than those that the approved NESHAP requires or the proposed NESHAP would require if promulgated, (2) rely only on reductions below actual or allowable levels (whichever is less) of that pollutant, and (3) take place within a single plant or contiguous plants.

Where a pollutant has been listed under section 112 or EPA has published a Notice-of-Intent-to-List, but no NESHAP has been promulgated or proposed for a source which emits that

sources may still submit such revised limits for approval under the general requirements applicable to SIP revisions.

¹⁰ µg/m² for any 24-hour period for particulate

 $^{5 \}mu g/m^3$ for any annual period for particulate

matter: 13 μg/m3 for any 24-hour period for SO₂: 46 µg/m² for any 3-hour period for SO₁: 3 μg/m² for an annual period for SO₂; 575 µg/m3 for any 8-bour period for CO: 2300 µg/m3 for any 1-hour period for CO; 0.1 µg/m² for any 3-month period for Pb. See 45 FR 52709 (August 7, 1980). For offset transactions, any required modeling must follow procedures consistent with EPA's new Source Review regulations in 40 CFR 51.18 or Part 51. Appendix S, or parallel EPA-approved state regulations. "Significant" impact under 40 CFR Part 51, Appendix S is defined as 1 µg/m² annual average for particulates, SO2 or NO2: 5 µg/m3 24hour average for particulates and SO₂: 25 μ g/m² 3-hour average for SO₂: and 0.5 mg/m² 8-hour average and 2 mg/m² one-hour average for CO.

Other techniques may be approved where sources show they equally well protect NAAQS. applicable PSD increments, and visibility. For example, in limited circumstances conservative screening models may be acceptable in lieù of MPTER and ISC. In such cases, use of a full year of meteorological data may not be necessary. Such screening models may be acceptable where: (a) The screening model shows that all the emissions from the stack(s) with increasing emissions would not produce exceedances of the Level II significance values described in n. 38 above, or (b) the stack parameters at the stack(a) with increasing emissions do not change and the screening model shows that the increase in emissions at the increasing stack(s) would not produce exceedances of these. significance values.

^{*1} See discussion in LB.1.c. below.

pollutant, states may generally allow trades consisting of equivalent increases and decreases of actual emissions of that pollutant within a single plant or contiguous plants. Once the relevant NESHAP is promulgated, every source. regardless of any previously approved trade involving emissions of that pollutant, must meet the requirements of that promulgation.

Where EPA has decided that one or more source categories which emit a listed pollutant do not require regulation solely because of limited national exposure, emissions of that pollutant will continue to be treated the same as emissions of any other pollutant listed

under section 112.

Where EPA has issued a formal Notice-of-Intent-Not-to-List a pollutant under section 112, that pollutant will ordinarily be treated as non-hazardous. However, where the decision not to list or not to regulate was based on limited national exposure, but the individual risk was sufficiently high that EPA committed in the announcement of its decision to support (through some formal mechanism such as a Memorandum of Understanding (MOU)) state-level efforts to develop regulations, the pollutant will be treated as listed for trading purposes in order to assure that such state efforts are not compromised. The model for the intended scope of this classification is EPA's acrylonitrile decision. (50 FR 24319; June 10, 1985).

If a substance is neither listed nor regulated as hazardous under section 112, nor meets any of the other conditions specified above, but has been formally listed or regulated as toxic under any comparable health-based federal statute, the Administrator mayconsider this fact in evaluating trades: which may increase emissions of that substance. This authority has not been delegated within EPA by the Administrator. See Clean Air Act

section 301(a)(1), 42 U.S.C. 7601(a)(1).44 ** Trades involving emission streams partially or wholly composed of any pollutants subject to special considerations under this section must meet two separate and distinct tests to be approved. First, such trades must be approvable under the criteria and principles which apply to all trades, as discussed throughout this policy (i.e., such trades must meet baseline and other requirements for the relevant criteria pollutant). Second, such trades must be approvable with respect to the hazardous pollutant fraction of the criteria pollutant emission stream. This means that there must be no net increase in emissions of the pollutants addressed in this section, as a result of such trades. Where a NESITAP has been promulgated or proposed, the baseline for determining whether such an increase has occurred is the lower-of-actual-or-NESHAPsallowable emissions for the hazardous component of the trade, for the source which emits that component. The promulgated or proposed NESHAP limit not only is used to define the allowable

· Exception. Trades which involve the pollutants addressed in this section but do not meet the special restrictions discussed above, may also be approved where surplus reductions in those pollutants compensate for increases in non-hazardous emissions of the same criteria pollutant. For example, a source : emitting benzene may trade with a source emitting a non-hazardous VOC without meeting these special restrictions, if the benzene emissions are reduced as a result of the trade (i.e., "traded down"). As long as such a trade would not result in an increase in either actual or allowable emissions of a pollutant subject to the preceding paragraphs at any source, it would not differ in nature or requirements from a trade involving only non-hazardous VOC emissions.

e. Existing-Source Credits Cannot Be Used to Meet Applicable Technology-Based Requirements for New Sources. Under Clean Air Act section 111 and EPA implementing regulations, new affected facilities must satisfy technology-based New Source Performance Standards (NSPS). regardless of the attainment status of the area in which they are located. Under sections 165 and 173 and EPA implementing regulations, new or modified major sources must also satisfy technology-based control requirements associated with preconstruction permits. These requirements prohibit use of credits from existing sources to meet or avoid applicable NSPS, and bar use of such credits to meet applicable new source review requirements for best available control technology (BACT) in PSD areas, or lowest achievable emission rate control technology (LAER) in nonattainment areas.45

However, modifications of existing major sources in PSD and nonattainment areas with an EPAapproved "plantwide" definition of source can use "contemporaneous" reductions in actual emissions from within the same source to "net out of" New Source Review. 46 Under such

emissions for that source, but serves as an absolute ceiling on the source as well. Where a NESHAP has not yet been promulgated or proposed, the baseline for determining whether such an increase has occurred is generally actual emissions for the hazardous pollutant component of the trade. But cf. today's Policy Statement at n. 6.

** Today's notice does not address whether or under what circumstances facilities subject to NSPS, BACT or LAER may surpass applicable permit limits reflecting such requirements in order to create credits for existing source trades.

** "Contemporaneous" means a reasonable period for accumulating increases and decreases in emissions, as specified by the state. See 40 CFR 51.18(j)(1)(vi) and 51.24(b)(3)(b) (ii).

"netting," sourcewide increases in potential emissions that do not exceed designated levels of significance (see 40 CFR 51.18(j)(1)(x), 51.24(b)(23), and 52.21(b)(23)) will not be considered "major modifications" of the source under 40 CFR 51.18, 51.24, 51.22, 51.307, 52.26, or 52.27. Thus, while these source changes must still meet applicable NSPS, NESHAPs, preconstruction applicability review requirements under 40 CFR 51.18 (a)-(h) and (l), and SIP requirements, they are not subject to new source review requirements for major modification because they are not considered "major." 47

f. Trades Involving Open Dust Emissions. Trades involving open dust sources of particulate emissions may be approved through case-by-case SIP revisions based on modeled demonstrations of ambient equivalence. Sources proposing such trades must commit, as part of the trade's approval, to (i) undertake a post-approval monitoring program to evaluate the impact of their control efforts, and (ii) make further enforceable reductions if post-trade monitoring indicates initial open dust controls do not produce the predicted air quality results.

g. Interstate Trades. EPA will approve trades which involve sources located in neighboring states where such trades meet the criteria below and all other approval criteria applicable under today's notice. Where state trading requirements differ, EPA will require that trades with increasing and decreasing sources in different states meet the substantive requirements of the more stringent state. In general, in order to avoid complex accounting problems. EPA will deem ERCs created in another state to contribute to progress in the state where used, to the extent of that use. Such trades must be accomplished through case-by-case SIP revisions.

^{**} Netting also applies under the narrower "dual of "source" in certain circumstances. For example, firms may use reductions within the plant to compensate for increases at several emitting units which, while not individually significant, might otherwise add up to a significant increase plantwide.

Under current EPA regulations, if a nonattainment area is subject to a moratorium on new preconstruction permits for major sources or modifications and the area does not have an approved New Source Review program, then the area automatically uses a plantwide definition. See 40 CFR 52.24.

EPA's general expansion of opportunities for states to use the plantwide source definition for certain nonattainment areas (49 FR 50768, October (4, 1984) was affirmed by the U.S. Supreme Court on June 25, 1984. Chevron U.S.A., Inc. v. Natural Resources Defense Council, 104 S. Ct. 2778, 14 ELR 20507, overruling Natural Resources Defense Council, Inc. v. Gorsuch, 685 F.2d 718, 12 ELR 20942 (D.C. Cir 1982).

h. Trades Near PSD Class I Areas. EPA or a state operating under a generic rule must notify the Federal Land Manager if an emissions trade will take place within 100 kilometers of a PSD Class I area. Notification must occur early enough in the review process to allow at least 30 days for the submittal of comments before the trade will be approved by the reviewing authority.

Where a bubble within 50 kilometers of a PSD Class I area is submitted to EPA as a case-by-case SIP revision, the Region may call for additional technical support, beyond the applicable requirements of the modeling screen described in section I.B.l.b. above, if deemed necessary to protect air quality in the Class I area.

i. Effect on Trades of Subsequently-Discovered Clean Air Act Problems: Revisitation Considerations. If ambient violations are discovered in an area where EPA has approved a trade, or if other violations of Clean Air Act requirements are discovered in that area, sources in the trade should be aware that they are potentially subject to requirements for additional emission reductions, just as are all other sources in the area. 18

Such termination could occur, for example, where two sources in a given source category were subject to pre-bubble mass emission limits of 100 TPY each and post-bubble limits of 50 TPY and 150 TPY respectively. Assume the state imposes a new category-wide regulation which would normally limit those sources to 40 TPY each. In this case, the first source should be required to meet the new 40 TPY limit (i.e., it should be required to produce additional reductions of 10 TPY), while the second source should be subject to a new limit of 90 TPY (i.e., a level reflecting the continued existence of the 50 TPY emission reduction credit). Termination of the emission reduction credit would occur either by requiring the first source to produce additional emission reductions of 60 TPY (i.e., more than its current level of emissions), or the second source to meet the 40 TPY limit. Either of these results would undermine the purpose of today's notice by eliminating the predictability required for generation or use of ERC's. They could also penalize trading sources for taking environmentally beneficial measures sooner than required, since it would often be more difficult to achieve the new reductions than had earlier voluntary steps not been

For these reasons, EPA urges states not to take such credit-terminating actions unless there is no other practical way to satisfy the requirements of the Clean Air Act.

Today's procedures for deposit and use of banked credits already address additional state emission reduction needs in the context of banking (see section I.C.9. below). States should, however, account for all previous trades and previously granted emission reduction credits in estimating emission reductions resulting from new control

2. Procedural Steps for Using ERCs

Bubble trades may be implemented through individual SIP revisions or state generic rules. This section describes principles applicable to either procedure. General principles for generic rules are addressed in Section II below. Special considerations for trades which require individual SIP revisions are addressed in Section III.

a. Effect of Existing Compliance Schedules. EPA's 1979 bubble policy required that sources be subject to binding compliance schedules based on original SIP emission limits before being eligible to apply for bubbles. Because of the time required to process bubble applications as case-by-case SIP revisions, this requirement tended either (a) to discourage sources faced with tight milestones for the installation of conventional control equipment from pursuing bubble applications, where they had agreed in good faith to SIP compliance schedules before discovering bubble opportunities, or (b) to discourage sources from agreeing to any compliance schedule until they had fully examined bubble opportunities.

Today's policy allows an application to be filed though the applicant is not subject to compliance schedules based on original SIP emission limits, so long as that applicant agrees to emission limits established as part of a complete bubble application. Sources which are already subject to binding compliance schedules should, however, be aware that submittal or proposed approval of a bubble application does not suspend their obligation to comply with such schedules. Such schedules and existing SIP requirements remain applicable and enforceable until the bubble is finally approved and the schedule has been modified accordingly.

Sources seeking trades should note that they remain subject to enforcement of existing (pre-trade) SIP limits until the bubble is approved. EPA will use the same principles and procedures for deciding whether to initiate enforcements actions in these circumstances as the Agency applies to any other source which is subject to a proposed SIP revision.

Under established EPA policy, regulated sources must be subject to an applicable enforceable emission limit at all times. Accordingly, sources which have approved bubbles with emission limits effective at future date and which are not in compliance with their pretrade limits, may be subject to enforcement action, which could include

strategies, in order to avoid problems due to double-

penalties based on a failure to meet the pre-trade limits. Sources in such situations may wish to minimize the chance that capital expenditures will be required to meet pre-trade limits, either by (a) agreeing to post-trade compliance dates which are substantially similar to their pretrade compliance dates, or (b) accelerating their compliance with post-trade limits.

In accord with the general principle that bubbles should be treated neither more nor less stringently than other SIP actions, implementation of today's policy will be neutral with respect to EPA enforcement of pre-trade emission limits. This means that EPA will not specifically target for enforcement action non-compliant sources seeking to use a bubble either to come into compliance or to restructure traditional compliance. However, it also means that EPA will not withhold or defer enforcement simply because a source is seeking alternative emission limits through a bubble. In exercising its enforcement discretion, EPA will apply the same considerations to noncompliant sources which seek to comply through bubbles as to those which do not.49

b. Extensions of Compliance Deadlines. States may modify or extend compliance schedules or deadlines for individual sources on a case-by-case basis in conjunction with bubble approvals. Such modifications or extensions must be consistent with the requirements of 40 CFR 51.15. Compliance schedules for sources in nonattainment areas cannot be extended beyond the statutory date for attainment, and applicable compliance: milestones must be specified and met for each year of the revised or extended compliance schedule. Because an extension will usually require a revision of the state's progress demonstration. such approvals must ordinarily be submitted as SIP revisions.

⁴⁸ While sources involved in a trade, like all other sources, may be subject to requirements for additional emission reductions, neither previous trades approved by EPA or by states under EPA approved generic rules, nor emission reduction credits used as part of a bubble, offset or netting action, should be terminated.

⁴⁹ Parties contemplating bubbles involving the trade of emission reduction credits from one firm to another should be aware that when the credits being provided by the first firm are the result of emission limits with a future compliance date, the obligation to meet pre-trade limits remains with the second firm (which may face enforcement action. including cash penalties, for failure to comply with those pre-trade limits) until the time specified for the first firm to achieve the reductions necessary for compliance under the bubble. The first firm's failure to achieve required bubble reductions on schedule may thereafter result in enforcement action (including cash penalties) against that firm. However, this paragraph should be read in conjunction with the general principle articulated above that EPA implementation of today's policy, will be neutral with respect to enforcement of pretrade limits.

In nonattainment areas, states which wish to give sources more time to implement bubbles by granting compliance extensions must receive EPA approval of the extension through case-by-case SIP revisions. EPA will evaluate the time extension portions of these SIP revision packages in accordance with the Agency's normal procedures for review of time extensions, including consistency with the Act's requirements of expeditiousness, reasonable further progress, and attainment and maintenance of ambient air quality standards. Sources should be aware that disapproval of the time extension portion may result in disapproval of the entire package (i.e., both post-trade limits and the time extension) or only part of it, depending on whether the state views these components of the proposed SIP revision as separable.

In attainment areas, states may continue to grant compliance extensions without case-by-case SIP revisions, as part of bubble approvals under a generic rule. Such generic compliance date extensions may be granted in these areas only if EPA has approved the extension provision of the generic rule as adequate to comply with the Clean Air Act, including requirements for attainment and maintenance of ambient air quality standards.

c. Pending Enforcement Actions. A bubble cannot be approved for an individual emission source which is presently the subject of a federal enforcement action or outstanding enforcement order unless EPA (and where necessary the appropriate court) approves the proposal and any compliance schedule it may contain. "Federal enforcement action or outstanding order" includes notices of violation, civil actions filed under Clean Air Act section 113(b), criminal actions filed under section 113(c), notices imposing noncompliance penalties issued under section 120, administrative orders issued under section 113(a), or citizen suits filed under section 304 in which EPA has intervened if the source is subject to an administrative or judicial order.

This requirement need not preclude bubble approvals under generic rules, provided the rule specifies an appropriate mechanism for securing and recording EPA or court approval. Sources should, however, be aware that such approvals cannot be finally effective until approved by the appropriate agency or court, and that

they remain subject to original emission limits until such approval.

C. Banking Emission Reduction Credits

Emission reductions that are surplus. permanent, quantifiable and enforceable can qualify as emission reduction credits (ERCs) and be deposited in EPAapprovable banks. States may establish such banks by adopting appropriate rules to govern whether and how sources may own and hold surplus emission reduction credits for future use in bubble, offset or netting transactions. 51 Such banking rules may encourage sources to take measures to reduce emissions in advance of specific need for ERCs, resulting in lower transaction costs for those seeking offsets, bubbles, or partners for these transactions. States should, however, be aware that because an area's air quality situation or the status of its SIP may change in the future, failure to account for banked credits in emission inventories used for planning purposes may result in loss of those ERCs not treated as "in the air" (e.g., not included in any future SIP inventory or accounted for in any redesignation of the area to attainment), due to double-counting. Banking rules may protect such reductions in whole or in part as long as such protection is consistent with the Act's mandate to attain and maintain ambient standards while protecting PSD increments and visibility.

EPA-approvable banks can accept and evaluate requests to certify an ERC, serve as a clearinghouse for credits on deposit, and account for transfers and withdrawais of ERCs. ⁵² Banks can also: Register ERCs to ensure they are considered as current actual emissions in future planning (thus providing the greatest technical measure of protection to those ERCs); notify prospective purchasers of the existence of ERCs; and

51 States may incorporate EPA-approvable banking rules in the SIP by submitting them for approval as SIP revisions.

Emission reductions banked through a formal or informal banking mechanism prior to a state's aduption of EPA-approvable banking rules may qualify for deposit in the EPA-approvable bank so long as (1) the source shows that its reductions are surplus, permanent, quantifiable and enforceable; and (2) the state shows that these reductions have not already been assumed or otherwise double-counted in the SIP.

account for transfers and withdrawals. These roles will generally be performed by the state as part of its normal permitting activities. *Use* of banked credits must meet all the criteria of the particular SIP regulatory program under which they are to be used. 52

The following sections address both minimum requirements for state banking rules which are approvable by EPA, and issues states should consider. States may adopt other approaches which produce equivalent results.

1. Banking Rules Must Designate an Administering Agency

Banking rules must identify the entity responsible for specific functions. While the state will ordinarily be responsible for verifying and processing ERC requests, all or part of this responsibility may be delegated to other organizations. Such organization(s) must possess the resources and legal authority to implement delegated activities.

2. Only ERCs May Be Banked

Banked emission reduction credits must be surplus, permanent, quantifiable, and enforceable by the state by the time they are banked.⁵⁴ However, if a source commits to produce a specific reduction at a specific time in the future, a state may allow a conditional deposit to be made. Procedures for such conditional deposits must ensure that they do not

^{*}See section II.B.d below.

because of differing regulatory requirements, the amount of credit actually derived from particular emission reductions may differ from one regulatory program to another. For example, in primary nonattainment greas needing but lacking approved demonstrations, the amount of credit from a given reduction which is available for bubble purposes may be less than that available from the same reduction for offset or netting purposes, since special progress requirements apply to bubbles in these areas.

⁵³ States may, however, expand opportunities for use of banked credits beyond those of current SIP programs (e.g., extend the "contemporaneous" period for netting), by submitting revised regulations addressing the banking and use of such credits, for approval as SIP revisions.

Let In primary nonattainment areas which need but lack approved demonstrations, emission reductions made prior to application to bank or trade (whichever is earlier) will not be credited for use in bubbles (see section f.A.f.c.(3) above). Following publication of today's notice, the "date of application to bank" will be the date the source submits an application to the state to make a reduction state-enforceable through or concurrent with use of a formal bank or informal banking mechanism (see section f.A.f.b.(1) above).

In other areas, although emission reductions cannot qualify as ERCs or be deposited in EPAapprovable banks until they are made enforceable by the state, emission reductions banked through other formal or informal banking mechanisms will still be eligible for use in future trades, so long as those reductions are made federally enforceable at their time of use and all applicable requirements of . the regulatory program under which they will be used are met. Since states may have to revise their regulations or permit procedures in order to implement this new definition, full implementation will not be expected until one year after publication of today's notice. However, all credits not made enforceable when banked during this interim period should ultimately be made enforceable within eighteen months from today's notice. Emission reductions currently deposited in banks should also be made enforceable by the state within eighteen months from the date of this policy.

compromise the state's ability to secure through further regulation any future reductions which may be needed. In all cases the reduction must be made federally enforceable by the time the emissions trade which relies upon it is finally approved.

3. Possible Limitations on Use of ERCs for New Source Permitting

Use of banked ERCs for new source permitting must be consistent with applicable regulations approved by EPA under 40 CFR Parts 51 and 52. For example, under 40 CFR 51.18(j)(3)(ii)(c) shutdowns that occur prior to applications for a new source permit may ordinarily be used only as offsets for replacement facilities, and then only if the permit application was filed within one year after the shutdown occurred or if the reduction occurred after August 7, 1977.56

4. Sources Should Apply to Bank Surplus Reductions As Soon As They Decide To Make Them

For administrative simplicity and accurate quantification, sources should apply to bank reductions as soon as possible after they decide to make them. The administering agency should formally note the source's intent to make a surplus reduction, as expressed in the application. The state must then verify whether and to what extent the reduction actually occurred, and must make the reduction enforceable by the time it is accepted for deposit.

5. Procedures for Banking Surplus Emission Reductions Should Be Defined

To speed approval of trades and provide greater certainty for potential ERC creators and users, state banking rules should clearly specify which proposed emission reductions can qualify to be credited and banked, the information required of sources to substantiate their claim for credit, and any required application forms. At minimum, such rules must require firms to maintain records (e.g., production records and records of previous.

emission tests) adequate to determine the pre- and post-reduction actual and allowable values for emission rate, capacity utilization, and hours of operation for the source generating the ERC.

6. Banking Rules May Establish Ownership Rights

To prevent two entities from claiming or attempting to use the same ERCs at the same time, state banking rules may specify who can own ERCs. For example, while the source creating the ERC will generally be its owner, the state could, as part of its rule, reserve ownership of certain classes of ERCs to itself or local governments. States considering the latter course should carefully weigh whether such reservations are likely to increase or diminish future reductions and air quality management capabilities.

7. Banking Rules Must Establish an ERC Registry or Its Equivalent

An ERC registry or equivalent instrument allows states to track ownership, use, and transfer of all banked ERCs. Banking rules may provide that no transfer of title to a banked ERC will take effect until the transaction is reflected in the registry. This tracking system can minimize potential disputes and provide a central list of certified ERCs which may be available to potential purchasers. It can also provide useful information for quickly evaluating any proposed use of a banked ERC.

Information which may help evaluate future proposed uses of a banked ERC should be recorded at the time of its creation and entered as part of its banking record. This information should include the location of the source creating the ERCs; whether the reduction is due to a shutdown or curtailment; the date the reduction occurred or will occur (to allow future determination of the timing of the reduction with respect to the application for credit or its contemporaneity for use in netting or, if a shutdown, as an offset); the source's stack parameters; the temperature and velocity of its plume; particle size; the existence of any hazardous pollutants; daily and seasonal emission rates; and other data which might reasonably be deemed necessary under the requirements described in sections I.A. and I.B. above to evaluate future use.

To perform these tracking and clearinghouse functions the ERC registry must be accessible to the public. Subject to confidentiality considerations, states should make copies of the ERC registry available at convenient locations and

times, and may want to publish or otherwise issue a periodic summary of . banked ERCs.

8. Possible Adjustments to ERCs Based on Enforcement Considerations

Banking rules should state what, if any, changes may occur to ERCs after they have been banked. Once an ERC has been used by another source to meet a permit or other regulatory requirement, any violation of the conditions under which that ERC was created should result in enforcement against the source producing that ERC and not the source using it. If a state attempted to enforce against the source using purchased ERCs, a complex set of third-party lawsuits would likely ensue.⁵⁷

9. Possible Adjustments to ERCs Based on Ambient Attainment Considerations

To assure the validity of its demonstration(s) of progress or attainment, a state with a banking rule must assume that all banked emissions will ultimately be used. In evaluating their ability to attain national standards, such states must add to their emissions inventory or measured ambient values all unused banked reductions at the site at which they were created. This is especially important for areas requesting reclassification from nonattainment to attainment. Failure to account for banked reductions as "in the air" for SIP planning purposes would ordinarily eliminate their use as ERCs following a new SIP design or inventory year, due to double-counting.

Additional emission reductions may be required from sources because of their area's failure to attain ambient standards, because of an increment violation, because of existing visibility. impairment, or because new RACT requirements are being imposed under a SIP schedule. The existence of banked ERCs must not interfere with states' ability to obtain these additional reductions, and a state's rules on treatment of banked ERCs must provide it the necessary flexibility to meet future requirements. However, state banking rules may address, within this criterion. how banked ERCs will be treated if

⁵⁵ States have several available options to provide such assurance. They may, for example, bar , conditional deposits from source categories which are subject to pending regulation. Alternatively, they may allow unrestricted conditional deposits but write future regulations in terms of RACTequivalent reductions (e.g., an 80% reduction in current actual emissions) rather than in terms of specific control strategies of emission levels. The latter approach can avoid possible claims by some sources that no further control is required, while strengthening the state's ability to encourage further voluntary reductions as well as mandate needed ones. See section I.C.9.b below. States may adopt whichever alternative satisfies these concerns in their particular situation.

⁵⁶ See п. 14 above.

^{*7} Moreover, conflicting private-party attempts to assess ultimate responsibility for required reductions could make the purchased ERCs unenforceable and result in restoration of the creating source's original (higher) emission limits, due to claims that surplus reductions were produced in reliance on government rules implying their reasonable merchantibility and use. For these reasons emission limits altered as a result of the creation and use of ERCs must remain final and enforceable against the creator of those ERCs, so far as EPA is concerned.

additional reductions are required to attain and maintain NAAQS, protect PSD increments, or improve visibility. Available options include:

a. ERCs Generated Prior to the Design or Baseline Year Could be Eliminated. The use of ERCs generated prior to the design or baseline year is unlikely to be consistent with the state's demonstration, unless the state included such ERCs as "in the air" for planning

purposes at that time.

h. ERCs Could be Guaranteed Against Adjustment. The state would determine / the necessary quantity of reductions from individual sources and source categories and require these reductions from actively emitting sources. Banked credits previously created by sources would be fully preserved. Emitting sources could then satisfy new requirements for reductions either by reducing emissions directly or by using or purchasing equivalent ERCs.

in implementing this option, it would be particularly important for states to adjust downward the estimated total reductions due to these new regulatory requirements, in order to reflect reductions previously achieved as a result of banking actions. Alternatively, states could phrase new control requirements in terms of equivalent reduction results (e.g., "RACTequivalent" reductions in nonattainment areas) as well as specified control techniques or emission levels. Under this approach necessary additional control requirements would be expressly stated in terms of additional reduction responsibilities, to be met without regard to prior trades.58

c. Use or Deposit of ERCs Could be Temporarily Suspended. States may suspend either ERC use or future ERC deposits until the state has committed in its SIP to secure reductions sufficient to reestablish progress or cure an increment violation. Use of either type of moratorium would be consistent with air quality objectives while allowing sources to retain and eventually use their entire quantity of banked ERCs. However, these options may be undesirable because of uncertainty regarding the moratorium's start, duration or potential interference with user planning. This may be especially true where a moratorium on use (rather than deposit) is imposed after ERCs have been banked.

d. Across-the-Board Discounting. Under this option, the state could discount all ERCs in the bank by the same factor. For example, if a 10% additional reduction is required from a

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15 See Coolnote 55 above.

particular category of sources for the SIP's new demonstration, the state would discount all currently banked ERCs from those types of sources by 10%. Although the quantity of ERCs held by a firm will be reduced, the overall supply of ERCs will decrease, while demand will increase. Indeed, other sources may seek to purchase banked ERCs from creating sources, in order to meet the 10% reductions required of them. Thus, the price per unit of remaining ERCs is likely in many cases to increase.

This option is relatively straightforward for VOC or NO, For SOx or particulate matter more detailed. source-specific modeling would generally be required to allocate the discount necessary to demonstrate attainment.

States may adopt any of these methods of accommodating possible additional reductions. They may also adopt any equivalent method which achieves the same objectives. 59

II. Trades Covered by State Generic

This section explains how states may develop EPA-approvable generic rules under which classes of emissions trades may be exempt from the general requirement for subsequent EPA approval as case-by-case SIP revisions.

A. General Principles for Evaluating Generic Rules

A generic rule is approvable if it assures that emissions trades otherwise requiring case-by-case SIP revisions under sections 110(i) and 110 (a)(3) of the Clean Air Act will be evaluated under state procedures that are sufficiently replicable in operation to guarantee that emission limits produced under the rule will not interfere with timely ambient attainment and

maintenance or leopardize PSD increments or visibility. Replicability generally means a high likelihood-that two decision-makers applying the rule to a given trade would reach the same conclusion. For one example of a generic rule incorporating a very simple formula that meets tests of replicability, see 46 FR 20551 (April 8, 1981). In relation to generic bubble rules, this means that specific modeling procedures or surrogates are prescribed and that states have appropriately defined their choice of models, model inputs, and modeling techniques in applying these procedures to specific trades. Thus these trades should not create new ambient violations of standards or increments. delay the planned removal of existing violations, or degrade visibility in Class I areas. By approving such generic rules, EPA approves in advance an array of acceptable SIP emission limits, and no further SIP revision is required for trades which meet the terms of the state's approved rule.

EPA will comment on trades proposed under generic rules, conduct reviews of trades approved under those rules, and audit the implementation of these rules as part of its routine audits of other state air programs. See Section E below.

B. Scope of Generic Rules

States may use a range of mechanisms to exempt bubble trades from individual SIP revisions. While several general mechanisms are explained below, states may submit other generic rules that satisfy these basic principles. See section II.D below for specific requirements for generic rules in primary nonattainment areas which need but lack approved demonstrations.

1. VOC or NO, Trades

VOC or NO, trades approved by states under a generic rule that assures no net increase in applicable baseline emissions may occur without case-bycase SIP revisions.

The ambient impacts of VOC and NO. emissions are areawide rather than source-specific. All such emissions within a broad area are considered comparable, regardless of plume height. topography or related factors. Thus, the ambient impact of trades involving emissions of VOC or NO, from different sources within such an area will by definition be equivalent to that of the sum of applicable baseline emission limits for the sources involved in the

For VOC and NO, such pound-forpound trades may therefore be treated under generic rules as equal in ambient effect where all sources involved in the

^{**} The preceding discussion generally assumes the bank is iceated in an attainment area or nonattainment area with an approved demonstration. In primary nonattainment areas which need but lack approved demonstrations, use for bubble purposes of banked shutdown or other credits which meet relevant requirements of today's notice will similarly be allowed. See section I.A.1.c.(3) above. Bubbles in these areas will already be subject to special progress requirements. However, in order to accommodate possible additional reduction requirements in other areas in a manner consistent with bunks, states may voluntarily adopt such an approach for bubbles prior to the issuance by EPA of any formal notice of SIP deficiency mandating such requirements. States may also choose (as some have already done) to specify greater than 1:1 trading ranes for bubbles, offsets or netting. While this approach would not adjust the total amount of credit available in a bank, it can substantially enhance SIP planning efforts and provide a net air quality benefit by reducing the amount of emissions that can altimately be returned from the bank to the air.

trade are located in the same control strategy demonstration area, or where replicable procedures have been approved by EPA as part of the generic rule for determining when sources outside the demonstration area are sufficiently close that a pound-for-pound trade can be justified.60

In general, generic VOC trading rules must require that surface coating emissions be calculated on a solidsapplied basis. The rule should also specify the maximum time period over which emissions may be averaged in an acceptable compliance demonstration. For VOC that averaging time should not exceed 24 hours unless the rule contains language approved by EPA that expressly allows a longer averaging period. See Appendix D below.

Particulate, SO, CO or Pb Trades.

Classes of particulate, SO2, CO and lead (Pb) trades may also be exempt from SIP revisions if they are approved under a state generic rule which assures that valid ERC uses cannot reasonably interfere with attainment and maintenance of air quality standards or jeopardize PSD increments or visibility.61

De Minimis Trades. Trades of particulates, SO2 CO or lead (Pb) in which applicable net baseline emissions62 do not increase and in which the sum of the emission increases. looking only at the increasing sources. totals less than 25 tons per year (TPY) for particulates, 40 TPY for sulfur dioxide. 100 TPY for carbon monoxide. or 0.6 TPY for lead (Pb), after applicable control requirements, may proceed without modeling and case-by-case SIP revisions.63 Such trades will have at most a de minimis impact on local air quality because they will produce no netincrease in emissions and the amount of emissions being shifted is not significant in ambient effect under associated EPA

regulations. See 45 FR 52745 (August 7. 1980).54

Level I Trades. The ambient impact of particulate, SO2, GO or Pb emissions depends on site-specific factors such as topography and plume height which are ordinarily evaluated by ambient dispersion modeling. However, if applicable baseline emissions do not increase, sources are located in the same immediate vicinity, and all other Level I requirements discussed in section LB.1.b.(2) above are met, it can reasonably be assumed that "pound-forpound" trades will produce ambient effects equivalent to those which currently approved air quality models would predict. As a result, trades meeting the criteria in section I.B.1.b.(2) above may be treated in the same manner as generic VOC and NO, trades. and exempted from modeling and caseby-case SIP revisions.

EPA will normally approve generic rules that define "same immediate" vicinity" as up to 250 meters between individual emission sources involved in a trade.

Level II Trades. Other particulate. SO2, CO and Pb trades may also be exempted from case-by-case SIP revisions if they meet the Level II criteria in section I.B.1.b.(3) above and can routinely be modeled in a prescribed manner. The state's generic trading rule must specify the particular refined model that will be employed in a given situation, or criteria for selecting models in specified circumstances. To limit variability in modeling results the rule must also require at least a full year of meteorological data, identify the sites for that data, and specify procedures for selecting input data (e.g., wind speed. stability class, source emission rate) which are sufficiently defined to satisfy replicability concerns. 85 In some limited circumstances, a sufficiently conservative screening model could be specified as part of the generic rule. See section I.B.1.b(3) above.

Level III Trades. Because of the wide variability in data input and use inherent in full-scale dispersion modeling, Level III trades must be 1.30 中国特益66×6位。

The discussion at this paragraph does not apply to certain NO, trades involving visibility. inspaction due to elevated plumes.

" The ambient equivalence considerations elaborated in this and following paragraphs also apply to NO, trades involving visibility impaction due to elevated plumes. See n. 60 above:

Unlike other critical pollutants, EPA does not designate nonattainment areas for lead. However, states must review lead trades, as all other trades. to assure that they do not interfere with attainment and maintenance of the NAAOS. (5) 10 p.

Generic state approvals of trades involving pollutants addressed in this subsection must be limited to sources which are located in the same or adjacent control at basin. adjacent control strategy demonstration areas and

"See n. 31 above.

"This paregraph should not be construed to. imply that new sources and modifications need not meet all applicable requirements, including those specified under 40 CFR 51.18 or parallel EPAapproved state rules.

processed as individual SIP revisions. But cf. sections II.B.4 and III below.

3. Limits on Trades Exempt From SIP Revisions Under Generic Rules

Because some trades cannot readily be addressed in a replicable manner, the following may not in general be exempted under generic rules from the requirement for case-by-case SIP revisions:

- a. Particulate, SO2 CO or Pb trades requiring full-scale dispersion modeling under Level III (see section I.B.1.b.[4] above);
- b. Particulate, SO2, CO or Pb trades where complex terrain 66 is within the area of the source's significant impact or 50 km., whichever is less, unless the trade does not result in a modification of effective stack heights and the trade otherwise qualifies as de minimis or Level I. The area of significant impact can be determined as noted in footnote 21 above and in Appendix E; 67
 - c. Open dust trades; and
- d. Level II trades involving process fugitive particulate, SO2, CO or Pb emissions not discharged through stacks.68

In addition to the above, in order to protect the integrity of various SIP processes, the following types of trades may not, in general, be exempted under generic rules from the requirement for case-by-case SIP revisions: (1) Trades involving ERCs from mobile source measures. (2) trades involving emission sources which are the subject of an enforcement action manifested by issuance of a notice of violation, an administrative order or section 120 action, or the filing of a judicial complaint, unless the rule specifies an

The de minimis level is 40 TPY for NO, trades where visibility impaction due to elevated plumes is a consideration.

Because today's notice confirms the authority of states to use ruch EPA-approved refined models as MPTER; CRSTER or ISC to conduct the "daily," temporal, spatial analysis" of post-trade ambient impacts required under Level II. approval of generic rules incorporating Lovel II approaches should be less uncertain and burdensome than under the previous 1992 approach. See, e.g., Appendix C

⁴ Complex terrain is broadly defined by EPA as terrain greater in height than the physical stack height of a source. For bubble purposes, this definition is applicable only to sources with an increase over baseline emissions.

Generally, aside from the exception stated above, trades involving complex terrain as defined above may not be processed under generic rules. However, states may wish to develop and submit for EPA approval additional area-specific criteria for determining when trades involving complex terrain do not present problems of potential plume impaction, and therefore may be approved under-generic rules as de minimis. Level I or Level II trades using a flat terrain model. These additional criteria would include such factors as source height and emission rate, distance between stack and elevated features, rate of topographical rise, and other considerations which may be appropriate for a particular geographic area. States are encouraged to work with EPA to determine whether, where and how much additional criteria can be developed and applied within their state. Unless EPA has formally approved such additional criteria for a given geographic area as part of a generic rule states must apply the general restrictions stated above when processing trades in that area under the rule:

^{**} See Appendix Color Services

appropriate mechanism for notifying EPA of the source's bubble application prior to formal state proposal and for securing and recording written EPA concurrence that the bubble meets all pertinent requirements of the generic rule, (3) interstate trades, (4) VOC trades with averaging times longer than 24 hours, uniess a state generic rule expressly providing for longer averaging times has been approved by EPA, (5) trades involving work practice and equipment standards, unless a state generic rule containing a provision expressly providing for state evaluation of such trades in a replicable manner has been approved by EPA, and (6) trades involving negotiated RACT baselines. *However*, a state generic trading rule could specify "presumptive RACT" limits which acceptably define generic trading baselines where RACT has not otherwise been defined in the SIP. While RACT baselines different from this presumptive limit could still be used for specific trades, they would need to be approved as case-by-case SIP revisions. Where there is no RACT in the SIP, but EPA has issued a CTG for sources of the type involved in the trade, the CTG should be used as the presumptive RACT-component of the generic trading baseline.

To the extent necessary, EPA will issue notices requiring that existing generic rules be revised to reflect these restrictions. See section II.E.4. below.

4. Other Generic Mechanisms for Exempting Particulate, SO₂, CO or Pb Trades From Case-by-Case SIP Revisions

EPA will approve other generic techniques which are demonstrated to equally protect ambient standards, PSD increments. Class I areas, and visibility. For example, a state could approve a modeled formula for two or more specific emission sources which would satisfy ambient concerns while allowing firms to define specific permit limits at each covered emission source. Like other generic provisions, such a formula would have to be approved as part of the SIP. EPA encourages states to work with EPA Regional Offices where they seek to develop other generic mechanisms which meet the tests of replicability and ambient equivalence described above.

C. Enforcing Emission Limits Under Generic Rules

Alternative emission limits approved under generic rules are considered by EPA to be federally enforceable so long as the generic rule specifies the compliance instrument (permit limits, etc.) under which the conditions of the

trade will be implemented and all substantive and procedural requirements of the approved rule are met. Generic rules must specify that such alternative limits become applicable requirements of the SIP under \$ 110 for purposes of sections 113, 120, and 304 of the Clean Air Act and are enforceable in the same manner as other SIP requirements. To assure that EPA and citizens know what emission limits apply, generic rules must also specify that, and in what manner, EPA will be informed of emission limits applicable before and after the trade. (For additional issues related to enforceability, see section I.A.2 above. For requirements related to opportunity for public comment, see section II.F.

D. Generic Bubble Rules in Primary Nonattainment Areas Which Lack Approved Demonstrations of Attainment

Generic rules will continue to operate in primary nonattainment areas which require but lack approved demonstrations of attainment, under the following conditions:

1. Bubbles approved under existing generic bubble rules prior to the effective date of today's policy will not be affected by today's requirements.

- 2. Bubbles submitted to states under existing generic rules may continue to be approved by states in accord with those rules, until such rules are finally changed, pursuant to specific formal EPA request, to meet the criteria listed below. Such rules must, however, as requested by EPA, be modified to meet the criteria below.
- 3. Applications for new generic bubble rules applicable to these areas, and applications for generic rules now pending before EPA, will be approved provided they meet the criteria below and all other applicable requirements of today's policy.

Criteria for Approvable Generic Bubble Rules. New and revised generic bubble rules applicable to primary nonattainment areas which require but lack approved demonstrations of attainment must, for bubbles in those areas:

- a. Use lowest-of-actual-SIP-allowableor-RACT-allowable emissions baselines for all sources involved in the trade; 70
- b. Using baseline emissions defined above, meet applicable de minimis Level I or Level II modeling tests for ambient equivalence, as appropriate;
- c. Produce an overall emission reduction from each bubble equal (in percentage terms) to the larger of a 20% reduction in emissions remaining after applicable baselines, or to the overall emission reduction from controllable stationary sources (in percentage terms) needed to attain in the area (i.e., at least equal to the source-by-source emission reductions that would be required for a full demonstration of attainment, taking into account "uncontrollable" area or other stationary sources and expected emission reductions from mobil sources). 71 This determination must be

7º For detailed discussion of these baselines, see section I.A.I.b. above and Appendix B.

21 For example, assume air quality analysis indicates the area must decrease its base year emissions by 45% to attain the relevant NAAQS. Further assume

For the base year Uncontrollable stationary source emissions (e.g., residential combustion sources) Controllable stationary source emissions Mobile source emissions	2.500 -3,500 4,000
Total	10.000
Target emissions for attainment 10,000×(1.0-0.45)	5,500
tional controls); Uncontrollable stationary source emissions (2.500×1.7)	2,750
Controllable stationary source emissions (3.500×1.2) Mobile source emissions.	4.200 2.500
Total	9.450

Therefore the reductions needed from controllable stationary sources are 9,450-5,500=3,950 TPY

And the percent emission reduction required from controllable stationary sources to attain is

Thus the net overall reduction required from each generic bubble would be 94% (i.e., the reductions produced by applicable baselines (e.g., application of a RACT emission rate) plus whatever percent reduction in emissions remaining after this RACT limit is sufficient to yield the 94% total).

States that wish to avoid SIP revisions for sources for which RACT has not yet been defined in an approved SIP provision may incorporate "presumptive RACT" limits (e.g., 80% reduction for VOC) in their generic rules. Sources would then have the option of accepting these RACT limits for generic bubble purposes, or negotiating different RACT limits through the SIP revisions process. However, where a source involved in a trade is one for which EPA has issued a CTG, but the state has not yet adopted the CTG-specified limit as RACT and no RACT has yet been specified by the state for that source, the presumptive or negotiated RACT limit for the trade must be at least as protective as the CTG for that source.

^{**} In the interim, EPA expects states to ensure, so far as feasible, that bubbles approved under existing generic rules are consistent with this policy as well as with the terms of their EPA-approved rules. States should be aware that without this or similar precautions, continued approval of bubbles ounder existing generic rules containing identified deficiencies may create or acceptuate plan deficiencies which may have to be corrected at a later date or compensated for by other means. See section E.4. below.

submitted with the rule, and must use the same type and quality of analysis as that required for an EPA-approvable...

d. Provide assurances, in conjunction with the State's submittal of the generic rule to EPA, that the state (i) is making reasonable efforts to develop a complete approvable SIP that will achieve the percent emission reduction from controllable sources described in the previous paragraph and (ii) intends to adhere to the schedule for development of such a SIP (including dates for completion of emissions inventory and subsequent increments of progress), as stated in the letter accompanying the submittal or in previous letters. In addition, to ensure that generic approvals continue to complement and · · · do not interfere with attainment planning. EPA will require the state to ... include the specific assurances listed at ... section I.A.1.b.(3) above in or with its notices of proposed and final approval of each bubble issued under the generic rule in such a nonattainment area,72

E. EPA Oversight of Generic Rules

In order to ensure proper implementation of EPA-approved generic trading rules, EPA intends to (a) examine and comment on, together with any other public commenter, the information provided for individual trades proposed under a generic rule, (b) conduct reviews of individual trades approved under such a rule; and (c) periodically audit the implementation of, the generic rule itself.

1. EPA Comment on Trades Proposed -- ! Under Generic Rules

When processing emissions trades under generic rules, states are required to provide EPA and the public with adequate notice and opportunity to comment. See sections H.F. and H.G. below. EPA will use state procedures for notice and comment to oversee the implementation of generic rules without delaying state processing of trading applications.

The information which a state must provide to EPA by the first day of the comment period [see section II.G. below) is generally sufficient for EPA to

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being processed properly. Where this ____ generic rule must: information is not sufficient, EPA may request the application itself, and the state must provide it promptly.

Where EPA elects to provide any comments on the proposed approval, it will do so in writing, by the close of the comment period specified in the state's notice. EPA may also testify at any public hearing held pursuant to the approval of a trading application under a generic rule. Trading applicants and state officials are strongly advised to address EPA's comments, and where necessary to incorporate an appropriate response to those comments in the final approval document.73

Reviews of Individual Bubbles Approved Under Generic Rules

Reviews of Individual generic bubble approvals, apart from the regularly scheduled reviews associated with activities under EPA's National Air Audit System (see section II.E.3. below), may be conducted at any time by EPA in order to promptly address identified or suspected problems and to avoid patterns of improper approval or other adverse effects which might accumulate before the next biannual audit is conducted.

3. EPA Audits of the General Implementation of Generic Rules

Under the National Air Audit System, EPA conducts a program audit of each state agency responsible for implementing the SIP and delegated federal programs.74 These audits are currently carried out on a biannual basis. As part of the National Air Audit System, EPA will conduct an in-depth file audit of a representative sample of generic trading approvals issued by the relevant state.

4. Deficient Generic Trades

As discussed above, generic rules can expedite the approval process for certain classes of emissions trades because they allow such trades to be approved by states without undergoing a subsequent federal rulemaking. process. However, to be considered 3 1 1 1 1 1 T

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determine that a trading application is ____ valid by EPA, a trade approved under a

(1) Be one of a class of trades which is .. within the scope of the generic rule.

(2) Be approved after the generic rule has been approved by EPA, and

(3) Meet all the provisions of the generic rule as approved by EPA.

If a state-approved emissions trade does not meet all these requirements it cannot be considered part of the SIP and by definition cannot replace prior valid emission limits in the SIP. See 46 FR 20554-55 (April 6, 1981). Should EPA determine, as a result of its oversight activities, that a state-approved trade is inconsistent with the above requirements, it will notify the state and source in writing and specify any necessary remedial measures. In such circumstances, EPA may take appropriate remedial action to assure attainment and maintenance, including direct enforcement of the original SIP limits.75

5. Deficient Generic Rules

Existing generic rules approved under previous EPA policy and guidance may require revision in order to make them consistent with today's final policy. In addition, a generic rule approved by EPA under the final policy may subsequently be found to be deficient in some respect. Because EPA-approved generic rules have independent force of law, they can only be amended upon completion of a formal SIP revision

In order to ensure that generic rules are consistent with the Agency's current Emissions. Trading Policy, EPA will publish notices in the Federal Register which, identify, any generic rules requiring formal modification. 76 These notices will identify specific deficiencies and means for correcting them, and will set forth a schedule for submission and review of revised rules. These notices will alert affected states to the danger that continued processing of trades

The second material section of the second section is a

84. Office of Air Quanty Franking and Standards. EPA-450/2-83-007 (November 1983)

primary nonattainment areas which require but lack demonstration. Primary nonattainment areas which require but lack demonstrations should already be subject to special progress requirements of case-bycase SIP revision bubbles grade grade eller a

⁷⁵ In some cases EPA may have approved state SIP provisions which meet the functional criteria for generic rules, without indicating whether or not those provisions were approved for generic operation. Today's notice does not address the effect of generic validity of such provisions.

⁷⁶ EPA's publication of such notices will not trigger special progress requirements for case-bycase SIP revision bubbles in areas other than

primary nonattainment areas which require but lack

These four requirements must be included as a

contingent provision in all future generic rules, with
the contingency triggered to apply to bubbles in primary nonattainment areas which become subject to a SIP call questioning their approved demonstration, after the generic rule was approved.

To These four requirements must be included as a contingent provision in all future generic rules, with enforcement or rulemaking actions if the bubble is period will not bar future appropriate EPA case SIP revision bubbles in areas other than enforcement or rulemaking actions if the bubble is found to be inconsistent with the generic rule. See, e.g., National Air Audit Guidelines for FY
 Office of Air Quality Planning and Standards.

under these rules may create or accentuate plan deficiencies which may have to be corrected at a later date or compensated by other means. Where states fail to remedy deficiencies identified in the notice within the prescribed period, EPA may either rescrib its previous approval of the rule, or issue a notice of SIP deficiency under section 110(a)(2)(H) of the Act.

E. Public Comment

For emissions trades processed under generic rules, existing state statutes or regulations will generally provide for adequate public notice and opportunity to comment, including opportunity for judicial review sufficient to make comment effective. Under such statutes or regulations, after the state has reviewed a bubble application submitted pursuant to an approved generic rule, a newspaper or similar notice is typically published providing a comment period (usually thirty (30) days) on the proposed decision to approve or disapprove the application. This notice generally informs the public that the proposed approval document (license, order, permit, consent agreement, etc.), the application itself (with the exception of any portion entitled to confidentiality under state or federal law??, and the technical analysis performed by the state in making its proposed determination, are available for review at specified times and locations. The notice also offers the opportunity for a public hearing.

Under today's policy, the state must also notify the relevant Federal Land Manager if an emissions trade will take place within 100 kilometers of a PSD Class I area, Notification must occur early enough in the review process to allow at least 30 days for the submittal of comments before the trade will be approved by the state.

Where adequate procedures for public notice and comment are not already provided in existing state statutes or regulations, such procedures must be provided as part of an EPA-approved generic rules. In all proposed and final generic bubble actions, states must clearly and publicly identify both the pre- and post-trade actual and allowable emissions of each source involved in the trade, so that the ambient effects of each bubble may be known.

To ensure adequate public awareness consistent with § 304 of the Clean Air Act, state generic rules or other existing state laws or regulations must also make publicly available any changes to

emission limits which result from trades approved under a generic rule.

G. EPA Notification

In addition to the above requirements for public notice and comment, the generic rule or other state provisions must require that states, by the first day of the public comment period, provide the appropriate EPA Regional Office (see addresses in Appendix A) with a copy of the public notice, the proposed approval document, and the technical analyses performed in evaluating the trading application, together with any summary of those analyses which is available for public review.

State provisions must also require that immediately upon issuance of a final generic trading approval, the state will forward two copies of that document to the relevant EPA Regional Office, and will also submit to EPA any additional documentation which is included in comments or the post-comment record and supports that final state approval.

Any notices issued by EPA to correct notice and comment procedures which do not meet these requirements under current or future generic rules will not trigger special progress requirements or otherwise affect the operation of those rules. Because of the importance of adequate public and EPA notice, affected states should, however, correct deficient notice procedures to the extent practicable, in the interim period before formal rule revisions are submitted and approved.

H. Rulemaking on Generic Rules

EPA will process acceptable generic trading rules for approval as revisions to SIPs as expeditiously as possible. In the interim, states are encouraged to use parallel-processing SIP revision procedures (see 46 FR 44477; Sept. 4. 1981) wherever practical Trades may not be generically approved by a state until EPA has published a notice of final approval of the generic trading rule in the Federal Register.

III. Trades Not Covered by State Generic Rules

In the absence of a generic rule, states and sources must use case-by-case SIP revisions to effect bubble or external offset trades. Individual trades may also fall outside the scope of an approved generic rule and still be implemented as case-by-case SIP revisions. The principles described in the Policy Statement and this Document will be used to evaluate these emission trades.

Because of the ability of the case-bycase SIP revision process to take account of greater individual variations, many trades which could not be accomplished under a generic rule may nevertheless be approved as case-by-case SIP revisions. Through this SIP revision process, states and sources may also demonstrate that a general principle discussed in Section I above does not apply to their particular circumstances, or that such a principle may be satisfied in other ways.

EPA will make reasonable efforts to take prompt action on SIP trading proposals after a state has ruled on an individual application and submitted it to the Agency. EPA encourages "parallel processing" of such proposals, with EPA and state officials conducting concurrent review so that both agencies can give public notice of proposed action at roughly the same time. EPA can then take final action after the state completes its proceedings, provided the state does not substantially after the proposal after public notice. EPA will also publish noncontroversial SIP revisions as direct final actions. converting them to proposals only if requests to submit adverse comments are received within 30 days (see generally 46 FR 44477, September 4 1981). In all bubble actions EPA will clearly identify (or require states to identify, as appropriate) both pre- and post-trade actual and allowable emissions for each source involved in the trade, so that the ambient effects of each bubble may be known.

Appendix A—Regional EPA Emissions Trading Coordinators

Region I. David Conroy (APS-2310), State Air Programs Branch, U.S. Environmental Protection Agency, Region I. John F. Kennedy Federal Building, Boston, Massachusetts 02203, (617) 565-3252; FTS 835-3252 Region II: Betty Martinovich, Air Branch.

Region II: Betty Martinovich, Air Branch U.S. Environmental Protection Agency, Region II. 26 Federal Plaza, New York, New York 10007, (212) 264– 2517; F1S 264–2517

Region III: Cynthia Stahl, Air Programs
Branch, U.S. Environmental Protection
Agency, Region III, 841 Chestnut
Building, Philadelphia, Pennsylvania
19101, (215) 597-9337; PTS 597-9337

Region IV: Melvin Russell, Air Programs
Branch, U.S. Environmental Protection
Agency, Region IV, 345 Courtland
Street, N.E., Atlanta, Georgia 30308.
[404] 257-2864; FTS 257-2864

Region V: Joe Paisie. Air Compliance Branch, U.S. Environmental Protection Agency, Region V, 230 South Dearborn Street, Chicago, Illinois 60604, (312) 886–5777; FTS 886–5777

Region VI: Bill Riddle, Air Program
Branch, U.S. Environmental
Protections Agency, Region VI, First

⁷⁷ The specific pollutants emitted by the source, the amount of those pollutants, and their ambient air impact may not be deemed confidential

International Building, 1201 Elm Street, Dallas, Texas 75270, (214) 767-

9870; FTS 729-9870

Region VII: Charles Whitmore, Air Support Branch, U.S. Environmental Protection Agency, Region VII, 324 East 11th Street, Kansas City, Missouri 64106, (913) 236–2896; FTS 757-2896

Region VIII: Dale Wells, Air Programs Branch, U.S. Environmental Protection Agency. Region VIII, 1860 Lincoln Street, Denver, Colorado 80296, (303) 293-1773; FTS 564-1773

Region IX: Nancy Harney, Air Management Division, U.S. Environmental Protection Agency, Region IX, 215 Fremont Street, San Francisco, California 94105, (415) 974-7658; FTS 454-7658.

Region X: David Bray, Air Programs Branch, U.S. Environmental Protection Agency, Region X, 1200 6th Avenue, Seattle, Washington 98101, (206) 442-. 4253: FTS 399-4253

Appendix B—Definitions of "Actual," "Allowable" and "Baseline" Emissions for Purposes of Emissions Trading

As used in this document with respect to bubbles, a source's "actual" emissions equal its average historical emissions, in tons per year, for the twoyear period preceding the source's application to bank or trade emission reduction credit. Another time period may be deemed more representative of typical operations, but the applicant or state must show that actual emissions of such other period are consistent with air quality planning for the area. The definition of "actual emissions" for new source review purposes is somewhat different. 1 See 45 FR 52745 (August 7, 1980); 40 CFR 51.18(j)(1)(xii), 51.24(b)(21), 52.21(b)(21) and 52.24(f)(13).

A sources's "allowable" emissions in tons per year are calculated using the maximum rated capacity of the source (unless the source is subject to federally enforceable operating restrictions) and the most stringent of: (a) A standard applicable under 40 CFR Parts 60 or 61; (b) any applicable SIP emissions limitation, including those with a future compliance date; or (c) an emissions rate set in a federally enforceable permit condition. See 40 CFR 51.18 (j)(1)(xi), 51.24(b)(16), 51.21(b)(16) and 52.24(f)(11). The same definition of "allowable emissions" appears at each of these citations. See also 45 FR 52745 (August 7, 1980).

For bubbles, a source's "baseline" emissions are equal to the product of its

1 For instance, the calculation of actual emissions for netting purposes is as of the date of the event that brings about the reduction.

(1) emission rate ("ER"), specified in terms of mass emission per unit of production or throughput (e.g., pounds SO₂ per million BTU or pounds of VOC per weight of solids applied); (2) average hourly capacity utilization ("CU") (e.g., millions of BTU per hour or weight of solids applied per hour); and (3) number of hours of operation ("H") during the relevant time period. I.e., baseline emissions = $ER \times CU \times H$. Net baseline emissions for a bubble are the sum of the baseline emissions of all sources involved in the trade.

In attainment areas and nonattainment areas with approved demonstrations of attainment, a source's baseline emissions for bubble purposes must generally be determined using the lower of "actual" or "allowable" values for each of the three baseline factors. Actual values for these factors are determined based on the source's average historical values for the factors for the two-year period preceding the source's application to bank or trade emission reduction credits. As discussed above, another time period may be deemed more representative of typical operations, but the emissions for that other period must be shown to be consistent with air quality planning for the area. A source's allowable values for the three baseline factors are determined based on its lowest federally enforceable limit for those factors (i.e., the lowest limit specified in an applicable SIP, PSD or other NSR permit issued under an EPA-approved program, compliance order, or consent decree), including those with a future compliance date.

The actual values for any of the three baseline factors, when higher than corresponding allowable values, may not be used by a source in calculating baseline emissions (i.e., reductions down to compliance levels cannot qualify for emission reduction credit). The allowable values for one or more of these factors, when higher than the corresponding actual values, may be used in calculating bubble baseline emissions for a source only in the following circumstances:

 Where, in a nonattainment or attainment area with an approved demonstration, the applicant shows that the demonstration assumes allowable value(s) for the factor(s) in question. Such a showing must be based on written evidence.

 Where, in an attainment area, the approved demonstration does not assume allowable value(s) for the baseline factor(s) in question, but the applicant performs satisfactory ambient tests to show that the use of such allowable value(s) will not jeopardize

attainment and maintenance of NAAOS. PSD increments or visibility. For particulate matter or SO2, this will require at least a Level II modeling analysis using actual emissions for the pre-trade case.2 Where such an analysis is submitted to justify allowable values for a case-by-case SIP revision bubble, the Region may require additional technical support if deemed necessary to protect applicable standards or increments. See Section I.B.1.b above.

 Where, in a non-attainment area with an approved demonstration of attainment, the demonstration does not assume allowable value(s) for the baseline factor(s) in question, but the applicant demonstrates through a Level III modeling analysis that the use of such allowable value(s) will not jeopardize attainment and maintenance of NAAQS or PSD increments.

 Where, in an attainment area or a nonattainment area with an approved demonstration, a source has a new source preconstruction permit issued after the PSD baseline date or the base year of the attainment demonstration. In such cases, the applicant may use the value(s) of ER, CU and H upon which the new source permit was approved.

While the Emissions Trading Policy does permit sources to use allowable values for ER, CU and H in determining baseline emissions for bubbles under certain carefully prescribed conditions, the approach taken recognizes that SIP demonstrations are frequently based on a "hybrid" of allowable and actual values, and that bubble baselines in these areas must accurately reflect SIP assumptions for all three baseline factors, or be justified by appropriate modeling, to maintain SIP integrity.

In nonattainment areas needing but lacking approved demonstrations of attainment, sources involved in a bubble must use "lowest-of-actual-SIPallowable-or-RACT-allowable" emissions baselines. The ER factor for such baselines is based on the actual emission rate, the SIP or other federally enforceable emission limit, or a RACT emission limit, whichever is lower, as of the time of the source's applicable to bank or trade, whichever is earlier. The CU and H factors for such baselines are based on the lower of actual or

^{*} Where the PSD baseline has been triggered, and such emissions data is available, the pre-bubble situation for sources which were in existence or commenced construction prior to the PSD baseline date should be modeled using emissions consistent with the PSD baseline concentration as defined in 40 CFR 51.24(b)(13) and 52.21(b)(13). However, emissions and associated parameters may be based on more recent values where past emissions data cannot readily be obtained. For related principles see section I.A.Lc.(1) above.

allowable values for those factors.
Actual values for CU and H must be determined using the source's average historical values for the two year period preceding the source's application to bank or trade, unless another two year period is shown to be more

representative of typical operations. For sources which banked or sought to bank credit in these nonattainment areas prior to publication of today's notice, the "date of application to bank" is the date of written application to the state to bank credit through a formal bank or informal banking mechanism for use in future trades. For sources which seek to bank credit in these areas following publication of today's notice, the date of application to bank will be the date of written application to the state to make a reduction stateenforceable through or concurrent with use of a formal bank or informal banking mechanism.

Appendix C—Approvable Modeling Approaches

U.S. Environmental Protection Agency Office of Air, Noise, and Radiation February 17, 1983.

Memorandum

Subject: Emissions Trading Policy— Technical Clarifications
From: Sheldon Meyers, Director, Office of Air Quality Planning and Standards (ANR-443)

To: Director, Air and Waste
Management Division, Regions IIIV, VI-VIII, X; Director, Air
Management Division, Regions I, V,
IY

The proposed emission trading policy was published on April 7, 1982, in the Federal Register. During the initial implementation of the proposal, numerous emissions trading issues have arisen including several ralating to the technical requirements of dispersion modeling and control strategy evaluations. To address these modeling issues, a special workshop was held to solicit recomendations from Regional meteorologists/modelers as well as the various Headquarters technical staff. The Standing Committee on Emissions Trading has also considered these issues and the recommendations of the workshop group.

This memo is intended to outline the results of these meetings and to provide interim guidance. It is effective immediately and will be incorporated into the final Agency policy when promulgated. The following revisions or clarifications on modeling for TSP, CO, and SO, are intended to supplement the

criteria included in the April 7, 1982, emissions trading policy statement.

Level I Analysis

 To ensure air quality equivalence under Level I analysis (modeling is not required), trades cannot be approved where complex terrain (terrain greater than any stack with increasing emissions) is within the area of significant impact of the source or 50 kilometers, whichever is less.

 Stacks with increasing emissions must be at least good engineering practice (GEP) to prevent downwash.

• Fugitive process and stack sources can be traded under Level I (i.e., process for process, process for stack, and stack for stack) as long as the maximum distance between any emitting points is less than 250 meters. (This is true for trades under generic rules as well as for trades implemented by SIP revisions. The effective stack height requirement in the April policy remains.)

 Since trades involving open dust sources are very difficult to address in a replicable manner, they cannot currently be approved under generic Level I bubble regulations. (Reiteration of April 7, 1982 proposed policy.)

Level II Modeling Analysis

 In order to satisfy the basic requirement of the emissions trading policy that trades "must demonstrate ambient equivalence," the maximum change in air quality impact (delta) must be determined when performing a Level II anaylsis. Experience has shown that this requirement is not necessarily met where the April 7 policy says to analyze only the "impact at the receptor of maximum predicted impact after the trade," Therefore, to assure that no degradation of air quality greater than the significance levels would occur at any site, the method of finding the maximum deltas must be determined on both a spatially and temporally consistent basis. This menas that you look at each receptor point and determine the change in concentration from the before trade case to the after trade case sequentially for each time period within a full year of meteorological data (time period means the appropriate ambient standard averaging time; e.g., 3-hour, 24-hour. etc.). This appears the most reasonable method of determining ambient equivalence at this time.

Other techniques may be approved where they can be demonstrated to be equally protective of the standards and PSD increments. Also, a Level III analysis may be used to supplement those cases where Level II analysis shows a few receptors registering deltas

greater than the significance values. This limited Level III anaysis would involve only the geographical area containing the high deltas and would include all contributing sources to that

 Use of refined models (e.g., MPTER, ISC) with at least one year of meteorological data is acceptable for a Level II analysis.

To ensure replicability, only trades involving process fugitive emission sources vented through stacks can be approved in generic Level II rules unless the State rule specifically identifies actual facilities between which process fugitive trades would be permitted. In such cases, the State rule must specify the emission points and all associated and pertinent parameters needed to ensure replicability of modeling results.

 Since trades involving open dust sources are very difficult to address in a replicable manner, they cannot currently be approved under generic Level II bubble regulations. (Reiteration of April

7, 1982 proposed policy.]

 Trades involving complex terrain cannot be approved under Level II generic rules; however, approval of such trades through individual SIP reviews are possible under Level IL EPA's experience in processing bubbles for such sources has shown that they are exceedingly difficult to address in a replicable manner. They require a considerable number of judgments and negotiations among Agency personnel concerning the models, data bases, and proper source characterization.

* All national ambient air quality standards (NAAQS) averaging periods, not just the 24-hour, must be considered when performing the air quality equivalence analysis. This is necessary to assure trades approved under Level II will not have any adverse health and welfare impacts. Therefore, all Level II analyses must test the delta for each receptor site against the following significance levels: TSP—10 μg/m³ (24-hour), 5 μg/m³ (annual); SO₂—13 μg/m³ (24-hour), 46 μg/m³ (3-hour), 3 μg/m² (annual); CO—575 μg/m³ (8-hour) 2300 μg/m³ (1-hour).

Implementation of Changes

Implementation of these changes by the Regional Offices in their negotiations with States and individual sources should begin immediately. If there are any on-going bubble activities where the Regions or States and sources have reached firm agreements which do not comport with these changes, please alert Tom Helms [FTS 629-5526] of my staff. Consideration will be given to situations where the source or State has

already invested significant resources in a good-faith analysis based on prior methods of demonstrating ambient equivalence. If you have specific questions regarding implementation of these policy changes, please call Tom Helms.

cc: Chief, Air Branch, Regions I-X, Meteorologist, Regions I-X, Mike Levin, Joe Tikvart, Darryl Tyler

Appendix D—Approvable Averaging Times for VOC Trades

U.S. Environmental Protection Agency

Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina 27711

January 20, 1984.

Memorandum

Subject: Averaging Times for
Compliance With VOC Emission
Limits—SIP Revision Policy
From: John R. O'Connor, Acting
Director, Office of Air Quality
Planning and Standards (MD-10)
To: Director, Air and Waste
Management Division, Regions IIIV, VI-VIII, X, Director, Air
Management Division, Regions I, V,
IX.

The purpose of this memorandum is to clarify the Agency's policy regarding emission time averaging for existing sources of volatile organic compounds (VOC's). Numerous State implementation Plan (SIP) revisions. both broad regulations and sourcespecific changes, have been submitted which provide for compliance determinations by "time averaging" emissions of VOC for periods exceeding 24 hours. These requests and the following policy on this subject were discussed extensively at a recent meeting attended by those Regional Offices which have the most pending actions (Regions I. III_IV, V); the Office of Air Quality Planning and Standards; and the Office of General Counsel. This policy represents the consensus of the meeting attendees.

The objective of EPA's national VOC emissions control program is the timely attainment and maintenance of the national ambient air quality standard (NAAQS) for ozone. SIP revisions and other regulatory actions relating to VOC control must maintain the integrity of this basic objective. There should be assurances that VOC emission control is reasonably consistent with protecting this short-term ozone standard. Further, since SIP's and associated VOC control programs comtemplate the actual application of reasonably available

control technology (RACT), regulatory actions that incorporate longer term averages to circumvent the installation of overall RACT level controls cannot be allowed.

Current Agency guidance specifies the use of a daily weighted average for VOC regulations as the preferred alternative where continuous compliance is not feasible. An example might be where a facility operates in a batch manner with multiple lines and various products. Reference is made to the December 8, 1980. Federal Register (copy attached) where can coating operators are allowed to "bubble" several production lines and average emissions over a 24-hour time period.

The preferred daily weighted average alternative may not be feasible in all cases. Where the source operations are such that daily VOC emissions cannot be determined or where the application of RACT for each emission point (line, machine, etc.) is not economically or technically feasible on a daily basis, longer averaging times can be permitted under certain conditions. In determining feasibility, consideration might be given, for example, to the extent to which modifications can be made to testing, inventory, or recordkeeping practices in order to quantify daily emissions. Also, variability or lack of predictability in a source's daily operation might be considered as well as availability of control technology or the physical impediment or restriction to control equipment installation. In order to allow longer than daily averaging in SIP regulations, the following conditions or principles must be honored:

1. Real reductions in actual emissions must be achieved, consistent with the RACT control levels specified in SIP's or the control technique guidelines (CTG's). These limits are typically expressed in terms of VOC per unit of production (a qualitative term such as lbs VOC/gal coating). Where it is not feasible to specify emission limits in such terms, emission limits per unit of time can be approved provided that:

a. The emission limits reflect typical (rather than potential or allowable) production rate and operating hours. These emission limits must truly reflect emissions reductions consistent with RACT and are not simply an artificial constraint on potential emissions. This must be supported in the SIP revision by historical production and operation data.

b. Nonproduction or equipment downtime credits are not allowed in the emission limit calculation unless a Federally enforceable document specifically restricts operation during these times. Such credit must be based on real, historical emissions:

2. Averaging periods must be as short as practicable and in no case longer than 30 days.

3. A demonstration must be made that the use of long-term averaging (greater than 24-hour averaging) will not jeopardize either ambient standards attainment or the reasonable further progress (RFP) plan for the area. This must be accomplished by showing that the maximum daily increase in emissions associated with long-term averaging is consistent with the approved ozone SIP for the area.

4. Sources in areas lacking approved SIP's, or in areas with approved SIP's but showing measured violations, cannot be considered for longer term averages until the SIP has been revised demonstrating ambient standards attainment and maintenance of RFP (reflecting the maximum daily emissions from the source with long-term averaging).

Meaningful short-term (i.e., daily) emission caps are desirable especially for sources subject to large fluctuations in emissions. The use of a daily cap (equal to or less than current average emissions on a daily basis) that limits short-term emissions to RACT equivalent levels would meet the above objective of ensuring VOC control that is consistent with attaining the NAAQS for ozone.

States have the primary responsibility to show adherence to the above principles and, to do so, must include the following information (in detail) in all SIP revision requests that seek VOC averaging times greater than 24 hours:

1. The VOC limits specified in an enforceable form with appropriate compliance dates.

2. A description of the affected processes and associated historical production and operating rates.

3. A description of the control techniques to be applied to the affected processes such as low solvent and waterborne coating technology and/or add-on controls.

4. The nature of the emission control program whether a bubble, a regulation change, a compliance schedule, or some other form of alternative control

orogram

5. The method of recordkeeping and reporting to be employed to demonstrate compliance with the new emission limit requirement and to support the showing that the emission limit is consistent with RFP and the demonstration of attainment.

Each EPA Regional Office shall have

the primary responsibility for determining the approvability of application requests. However, in order to assure Regional consistency, coordination with the Office of Air Quality Planning and Standards staff is encouraged during the initial development of any single "time average" SIP revisions involving long-term averaging neust be proposed in the Federal Register with an explanation of how the principles listed above have been satisfied.

Should there he any questions on this policy, please cell from Helms (FTS 629-5526) or Brock Nicholson (FTS 629-5516).

Attachment

~~

Barbara Bankoff
Ron Campbell
Jack Farmer
Mike Levin
Ed Reich
B.J. Steigerwald
Darryl Tyler
Peter Wyckoff
Chief, Air Branch, Regions I-X
Regional Administrator, Regions I-X.

Appendix E—Radii of Significant Impact for Approving "Complex Terrain" PM, SO₂ and CO Trades Under Level I Modeling Approaches

Appendix E indicates on its vertical axis the post-trade emission rate for the stack with increasing emissions (E), and on its horizontal axis the radius of significant impact (R) within which level I trades may be approved despite the presence of complex terrain outside that radius.

The curves in Appendix E have been generated using a normally conservative screening model, VALLEY, to estimate R for each E, using the 24-hour and 3-hour air quality impact significance level for SO₂ and the 24-hour significance level for particulate matter (PM) which have been established for level II modeling. It was assumed that the short-term standards would be controlling.

The F-stability class was assumed, and wind speed was presumed to be one meter per second for estimating the radius of significant impact for the three-hour period, and 2.5 meters per second for the 24-hour cases. In developing the three-hour curve, it was assumed that F-stability and a wind speed of one meter per second would persist for as much as fourteen consecutive hours. In developing the 24-

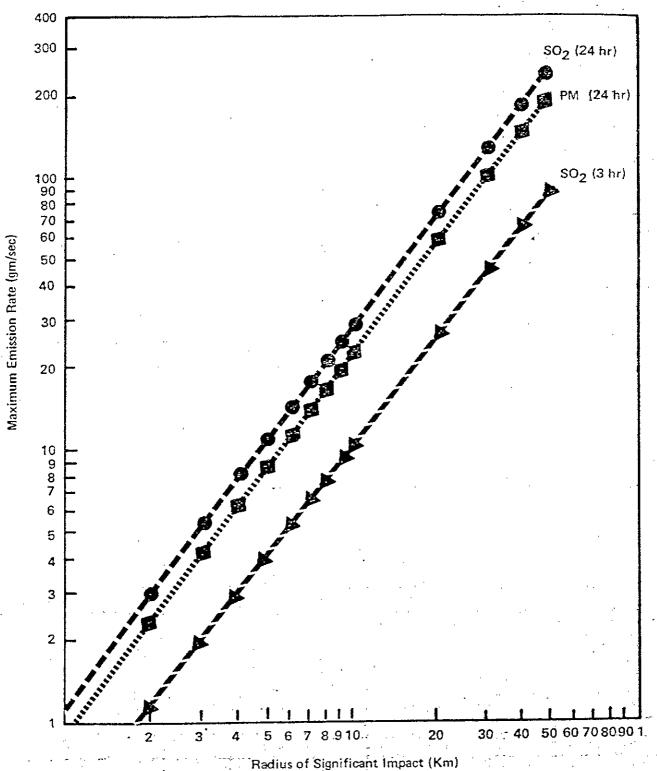
hour curves, it was assumed that Fstability with a wind speed of 2.5 meters per second would occur for six hours of any 24-hour period.

This Appendix provides different estimates for SO₂ and PM because the significance levels for these pollutants are different. For CO, the R value for E value may be determined by multiplying the E for SO₂ by twenty (20). This is a conservative approach towards determining radii of significant impact for CO. Where the effective height of the stack with increasing emissions is not changed (e.g., where the only change is in the sulfur content of fuel burned), the change in the hourly emission rate (E) may be used in licu of E."

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I The curves in Appendix E were derived using the assumptions described above so that they could be used to determine radii of significant impact for sources in any part of the country. However, it is possible that for some areas, local meteorological conditions will be such that alternative, less conservative meteorological assumptions can be employed in determining these radii. Where states can show that the use of such alternative assumptions is appropriate for a given area, they develop alternative curves or formulas for determining radii of significant impact and submit them for review and approval by EPA, either in conjunction with an individual bubble submittal or as part of a generic rule. States are advised to work closely with the appropriate Regional Office in any effort to develop such alternative approcaches.

FIGURE I:
Radii of Significant Impact for PM & SO₂ for Different Averaging Times



Appendix F—CFR Part 51 Conversion Table

On November 7, 1986 (51 FR 40656)
EPA restructured CFR Part 51 and renumbered many of that part's sections. Because most readers will be more familiar with prior designations, today's notice contains citations based on Part 51 as it existed before this restructuring. A detailed finding list of the old versus new citations can be found in Table 2 of the Preamble of the November 7 notice. Today's readers may also use the following table to convert teday's Part 51 citations to the corresponding new ones.

CFR Part 51 Conversion Table

Old 40 GFR 51 Citation	New 40 CFR 51 Citation
51.18 51.18(j) 51.18(j)(1)(x) 51.18(j)(1)(x) 51.18(j)(1)(xi) 51.18(j)(1)(xi) 51.18(j)(3)(ii)(c) 51.18(j)	Citation Subpart I 51.165(a) 51.165(a)(1)(vi) 51.165(a)(1)(x) 51.165(a)(1)(x) 51.165(a)(1)(xi) 51.165(a)(1)(xii) 51.165(a)(3)(4)(ii) 51.165(b) 51.165(b)
51.24 51.24(b)(3)(b)(ii) 51.24(b)(3) 51.24(b)(3) 51.24(b)(10) 51.24(b)(21) 51.24(b)(23) [FR Doc. 86-27092 Filed	51.281 51.168 51.168(b)(3)(b)(ii) 51.168(b)(13) 51.168(b)(13)(ii) 51.168(b)(16) 51.168(b)(21) 51.168(b)(23) 12–3–86; 8:45 ant

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SENATE BILL NO. 174

(By Senator Manchin)

[Introduced March 1, 1993; referred to the Committee on energy, Industry and Mining; and then to the Committee on the Judiciary.]

8

9

sixty-four of the code of West Virginia, one thousand nine hundred thirty-one, as amended, relating to authorizing the air pollution control commission to promulgate legislative rules relating to requirements for pre-construction review and determination of emission offsets for proposed new or modified stationary sources of air pollutants and emission trading for intrasource pollutants.

18 Be it enacted by the Legislature of West Virginia:

- 19 That section one, article three, chapter sixty-four of the
- 20 code of West Virginia, one thousand nine hundred thirty-one, as
- 21 amended, be amended and reenacted, to read as follows:
- 22 ARTICLE 3. AUTHORIZATION FOR DEPARTMENT OF COMMERCE, LABOR AND
- 23 ENVIRONMENTAL RESOURCES TO PROMULGATE LEGISLATIVE RULES.
- 24 §64-3-1. Air pollution control commission.

- (a) The legislative rules filed in the state register on the thirteenth day of August, one thousand nine hundred eighty-two, relating to the air pollution control commission (series VII), are authorized.
- 5 (b) The legislative rules filed in the state register on the 6 thirteenth day of August, one thousand nine hundred eighty-two, 7 relating to the air pollution control commission (series XIX), 8 are authorized.
- 9 (c) The legislative rules filed in the state register on the 10 sixteenth day of November, one thousand nine hundred 11 eighty-three, relating to the air pollution control commission 12 (emission standards for hazardous air pollutants) (series XV), 13 are authorized.
- (d) The legislative rules filed in the state register on the sixteenth day of November, one thousand nine hundred eighty-three, relating to the air pollution control commission (standards of performance for new stationary sources) (series XVI), are authorized.
- (e) The legislative rules filed in the state register on the 20 sixth day of January, one thousand nine hundred eighty-four, 21 relating to the air pollution control commission (to prevent and 22 control air pollution from hazardous waste treatment, storage or 23 disposal facilities) (series XXV), are authorized with the 24 amendments set forth below:

- 1 Page 3, §1.06, change the § title from "Enforcement" to
- 2 "Procedure"; place an "(a)" in front of the existing paragraph
- 3 and add the following:
- 4 "(b) Permit applications filed pursuant to this regulation
- 5 shall be processed in accordance with the permitting procedures
- 6 as set forth in code \$20-5E of this regulation. Permit
- 7 procedures set forth in code §16-20 and any other regulation of
- 8 this commission are not applicable to any permit application
- 9 filed pursuant to this regulation."
- 10 Such rules shall also include a section which shall read as
- 11 follows:
- 12 "The commission shall report to the legislative rule-making
- 13 review committee as required by that committee, but in no event
- 14 later than the first day of the regular session of the
- 15 Legislature in the year one thousand nine hundred eighty-five.
- 16 Such report shall include information regarding the commission's
- 17 data gathering efforts, the development of compliance programs,
- 18 the progress in implementation, and such other matters as the
- 19 committee may require, pertaining to the regulations hereby
- 20 authorized."
- 21 (f) The legislative rules filed in the state register on the
- 22 ninth day of January, one thousand nine hundred eighty-four,
- 23 relating to the air pollution control commission (permits for
- 24 construction and modification of stationary sources of air

- 1 pollution for the prevention of significant deterioration)
- 2 (series XIV), are authorized.

11 disposal facilities), are authorized.

- 3 (g) The legislative rules filed in the state register on the 4 thirtieth day of December, one thousand nine hundred 5 eighty-eight, modified by the air pollution control commission to 6 meet the objections of the legislative rule-making review 7 committee and refiled in the state register on the twenty-third 8 day of February, one thousand nine hundred eighty-nine, relating 9 to the air pollution control commission (prevention and control 10 of air pollution from hazardous waste treatment, storage or
- (h) The legislative rules filed in the state register on the thirtieth day of December, one thousand nine hundred eighty-eight, modified by the air pollution control commission to meet the objections of the legislative rule-making review committee and refiled in the state register on the twenty-third day of February, one thousand nine hundred eighty-nine, relating to the air pollution control commission (good engineering practice as applicable to stack heights), are authorized.
- (i) The legislative rules filed in the state register on the 21 thirtieth day of December, one thousand nine hundred 22 eighty-eight, modified by the air pollution control commission to 23 meet the objections of the legislative rule-making review 24 committee and refiled in the state register on the twenty-third 25 day of February, one thousand nine hundred eighty-nine, relating

- 1 to the air pollution control commission (TP-2, compliance test 2 procedures for regulation 2 -- to prevent and control particulate 3 air pollution from combustion of fuel in indirect heat 4 exchangers), are authorized.
- 5 (j) The legislative rules filed in the state register on the 6 sixth day of September, one thousand nine hundred eighty-nine, 7 modified by the air pollution control commission to meet the 8 objections of the legislative rule-making review committee and 9 refiled in the state register on the tenth day of January, one 10 thousand nine hundred ninety, relating to the air pollution 11 control commission (ambient air quality standards for sulfur 12 oxides and particulate matter), are authorized.
- (k) The legislative rules filed in the state register on the sixth day of September, one thousand nine hundred eighty-nine, modified by the air pollution control commission to meet the objections of the legislative rule-making review committee and refiled in the state register on the tenth day of January, one thousand nine hundred ninety, relating to the air pollution control commission (prevention of air pollution emergency episodes), are authorized.
- (1) The legislative rules filed in the state register on the 22 sixth day of September, one thousand nine hundred eighty-nine, 23 modified by the air pollution control commission to meet the 24 objections of the legislative rule-making review committee and 25 refiled in the state register on the tenth day of January, one

- 1 thousand nine hundred ninety, relating to the air pollution
- 2 control commission (permits for construction and major
- 3 modification of major stationary sources of air pollution for the
- 4 prevention of significant deterioration), are authorized.
- 5 (m) The legislative rules filed in the state register on the
- 6 sixth day of September, one thousand nine hundred eighty-nine,
- 7 relating to the air pollution control commission (standards of
- 8 performance for new stationary sources), are authorized.
- 9 (n) The legislative rules filed in the state register on the
- 10 sixth day of September, one thousand nine hundred eighty-nine,
- 11 relating to the air pollution control commission (emission
- 12 standards for hazardous air pollutants), are authorized.
- 13 (o) The legislative rules filed in the state register on the
- 14 sixteenth day of October, one thousand nine hundred eighty-nine,
- 15 modified by the air pollution control commission to meet the
- 16 objections of the legislative rule-making review committee and
- 17 refiled in the state register on the tenth day of January, one
- 18 thousand nine hundred ninety, relating to the air pollution
- 19 control commission (prevention and control of emissions of toxic
- 20 air pollutants), are authorized.
- 21 (p) The legislative rules filed in the state register on the
- 22 tenth day of August, one thousand nine hundred ninety, relating
- 23 to the air pollution control commission (prevention and control
- 24 of air pollution from the emission of volatile organic compounds
- 25 from bulk gasoline terminals), are authorized.

- 1 (q) The legislative rules filed in the state register on the 2 thirteenth day of August, one thousand nine hundred ninety, 3 modified by the air pollution control commission to meet the 4 objections of the legislative rule-making review committee and 5 refiled in the state register on the fifteenth day of November, 6 one thousand nine hundred ninety, relating to the air pollution 7 control commission (air quality management fee program), are 8 authorized.
- 9 (r) The legislative rules filed in the state register on the 10 tenth day of August, one thousand nine hundred ninety, relating 11 to the air pollution control commission (prevention and control 2 of air pollution from the emission of volatile organic compounds 13 from the storage of petroleum liquids in fixed roof tanks), are 14 authorized.
- (s) The legislative rules filed in the state register on the tenth day of August, one thousand nine hundred ninety, relating 17 to the air pollution control commission (prevention and control 8 of air pollution from the emission of volatile organic compounds 19 from petroleum refinery sources), are authorized.
- (t) The legislative rules filed in the state register on the thirty-first day of August, one thousand nine hundred ninety-two, modified by the air pollution control commission to meet the objections of the legislative rule-making review committee and refiled in the state register on the nineteenth day of February, one thousand nine hundred ninety-three, relating to the air

- 1 pollution control commission (requirements for pre-construction
- 2 review, determination of emission offsets for proposed new or
- 3 modified stationary sources of air pollutants and emission
- 4 trading for intrasource pollutants), are authorized.

5

NOTE: The purpose of this bill is to authorize the Air 7 Pollution Control Commission to promulgate legislative rules 8 relating to requirements for pre-construction review and 9 determination of emission offsets for proposed new or modified 10 stationary sources of air pollutants and emission trading for 11 intrasource pollutants.

12

13 Strike-throughs indicate language that would be stricken from 14 the present law, and underscoring indicates new language that 15 would be added.

KEN HECHLER Secretary of State

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May 28, 1993

Randy Suter Air Pollution Control Comm. 1558 Washington St., E Charleston, WV 25305

HB 100 authorizing, Title 45, Series 19, Requirements for Pre-Construction Review, Determination of Emission Offsets for Proposed New or Modified Stationary Sources of Air Pollutants & Emissions, passed the Legislature on May 26, 1993. It is now awaiting the Governor's signature.

You have sixty (60) days after the Governor signs HB 100, to final file the legislative rule with the Secretary of State's office. To final file your legislative rule, fill in the blanks on the enclosed form #6, the "Final Filing" form and file the form with our office. Authorization for your legislative rule is cited in HB 100 section $\underline{64-3-1(y)}$. The agency may set the effective date of the legislative rule up to ninety (90) days from the date the legislative rule is final filed with the Secretary of State's office. Please have an authorized signature on the bottom line.

***IMPORTANT: IF YOUR AGENCY HAS COMPLETED THE LEGISLATIVE RULE ON A COMPUTER SYSTEM THAT USES A 3 1/2" OR 5 1/4" DISK, PLEASE SUBMIT A CLEAN COPY, WITH ALL UNDERLINING AND STRIKE-THROUGHS TAKEN OUT, TO OUR OFFICE WHEN FINAL FILING THE RULE. STATE ON THE DISK THE FORMAT THE RULE IS IN AND THE TITLE IT IS FILED UNDER. THIS WILL MAKE IT QUICKER FOR US TO ENTER YOUR RULES ON THE LEGISLATIVE DATA BASE. REMEMBER THE TEXT OF THE COMPUTER FILED RULE MUST BE IDENTICAL - WORD FOR WORD, COMMA FOR COMMA, WITH ALL UNDERLINING AND STRIKE-THROUGHS TAKEN OUT, AS THE HARD COPY AUTHORIZED BY THE LEGISLATURE.

After the final rule is entered into the legislative data base, the rule will be sent to the agency for review and proofing. Following confirmation or corrections, as the case may be, the Secretary of State shall submit to the agency a final version of the rule for their records.

If you have any questions or need any assistance, please do not hesitate to call our office.

Thank You Administrative Law Division