

Title 33

ENVIRONMENTAL QUALITY

Part III. Air

Chapter 5. Permit Procedures

§504. Nonattainment New Source Review (NNSR) Procedures

A. - E.5. ...

F. Emission Offsets. All emission offsets approved by the department shall be surplus, permanent, quantifiable, and enforceable in accordance with LAC 33.III.Chapter 6 and shall meet the following criteria.

1. Except as specified in Subsection M of this Section, offsets shall be required at the ratio specified in Subsection L, Table 1 of this Section. All emission reductions claimed as offset credit shall be from decreases of the same regulated pollutant or pollutant class (e.g., VOC) for which the offset is required, except that direct PM_{2.5} emissions or emissions of PM_{2.5} precursors may be offset by reductions in direct PM_{2.5} emissions or emissions of any PM_{2.5} precursor, if such offsets comply with the interprecursor trading hierarchy and ratio established in the approved SIP for a particular nonattainment area. ~~Interpollutant trading, for example using a NO_x credit to offset a VOC emission increase, is not allowed. Except as specified in Subsection M of this Section, offsets shall be required at the ratio specified in Subsection L, Table 1 of this Section.~~

F.2. - J.4.b. ...

5. Public Participation Requirement for PALs. Procedures to establish, renew, or increase PALs for existing major stationary sources shall be ~~the same as the procedures for permit issuance in accordance with LAC 33:III.519~~ consistent with 40 CFR 51.160 and 51.161. These include the requirement that the administrative authority provide the public with notice of the proposed approval of a PAL permit and at least a 30-day period for submittal of public comments. The administrative authority shall address all material comments before taking final action on the permit.

6. - 15.b. ...

K. Definitions. The terms in this Section are used as defined in LAC 33:III.111 with the exception of those terms specifically defined as follows.

* * *

~~*Malfunctions*—for purposes of this Section, malfunctions shall include any such emissions authorized by permit, variance, or the on-line operating adjustment provisions of LAC 33:III.1507.B and 2307.C.2, but exclude any emissions that are not compliant with federal or state standards. Repealed.~~

* * *

~~*Regulated Pollutant*—any air pollutant, the emission or ambient concentration of which is regulated in accordance with the Clean Air Act.~~

a. any pollutant for which a national ambient air quality standard has been promulgated or any constituent or precursor for the identified pollutant, provided that such constituent or precursor pollutant is only regulated under NNSR as part of regulation of the primary pollutant. Precursors identified by the administrative authority for purposes of NNSR include the following:

i. volatile organic compounds and nitrogen oxides are precursors to ozone in all ozone nonattainment areas;

- ii. sulfur dioxide is a precursor to PM_{2.5} in all PM_{2.5} nonattainment areas;
 - iii. nitrogen oxides are presumed to be precursors to PM_{2.5} in all PM_{2.5} nonattainment areas, unless the administrative authority demonstrates to the administrator’s satisfaction or EPA demonstrates that emissions of nitrogen oxides from sources in a specific area are not a significant contributor to that area’s ambient PM_{2.5} concentrations; and
 - iv. volatile organic compounds and ammonia are presumed not to be precursors to PM_{2.5} in any PM_{2.5} nonattainment area, unless the administrative authority demonstrates to the administrator’s satisfaction or EPA demonstrates that emissions of volatile organic compounds or ammonia from sources in a specific area are a significant contributor to that area’s ambient PM_{2.5} concentrations.
- b. PM_{2.5} emissions and PM₁₀ emissions shall include the gaseous emissions from a source or activity which condense to form particulate matter at ambient temperatures. On or after January 1, 2011, such condensable particulate matter shall be accounted for in applicability determinations and in establishing emissions limitations for PM_{2.5} and PM₁₀ in NNSR permits. Compliance with emissions limitations for PM_{2.5} and PM₁₀ issued prior to this date shall not be based on condensable particulate matter. Applicability determinations made prior to this date without accounting for condensable particulate matter shall not be considered in violation of this Section.

* * *

Significant—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 the lower of any of the following rates or the applicable major modification significant net increase threshold in Subsection L, Table 1 of this Section.

Pollutant	Emission Rate
Carbon monoxide	100 tons per year (tpy)
Nitrogen oxides	40 tpy
Sulfur dioxide	40 tpy
Ozone	40 tpy of volatile organic compounds <u>or nitrogen oxides</u>
Lead	0.6 tpy
<u>PM₁₀</u>	<u>15 tpy</u>
<u>PM_{2.5}</u>	<u>10 tpy of direct PM_{2.5} emissions; 40 tpy of sulfur dioxide emissions; 40 tpy of nitrogen oxide¹</u>
¹ <u>Nitrogen oxides are presumed to be precursors to PM_{2.5} in all PM_{2.5} nonattainment areas unless the administrative authority demonstrates to the administrator’s satisfaction or EPA demonstrates that emissions of nitrogen oxides from sources in a specific area are not a significant contributor to that area’s ambient PM_{2.5} concentrations.</u>	

* * *

L. Table 1—Major Stationary Source/Major Modification Emission Thresholds

Table 1 Major Stationary Source/Major Modification Emission Thresholds			
Pollutant	Major Stationary Source Threshold Values (tons/year)	Major Modification Significant Net Increase (tons/year)	Offset Ratio Minimum
Ozone		Trigger Values	
VOC/NO _x			
Marginal	100	40(40) ²	1.10 to 1
Moderate	100	40(40) ²	1.15 to 1
Serious	50	25 ³ (5) ⁴	1.20 to 1 w/LAER or 1.40 to 1 internal w/o LAER
Severe	25	25 ³ (5) ⁴	1.30 to 1 w/LAER or 1.50 to 1 internal w/o LAER
Extreme	10	Any increase	1.50 to 1
CO			
Moderate	100	100	>1.00 to 1
Serious	50	50	>1.00 to 1
SO ₂	100	40	>1.00 to 1
PM ₁₀ ¹			
Moderate	100	15	>1.00 to 1
Serious	70	15	>1.00 to 1
PM _{2.5} ⁵	100	10	>1.00 to 1
Lead	100	0.6	>1.00 to 1

Footnotes 1. - 4. ...

⁵ Sulfur dioxide is a precursor to PM_{2.5} in all PM_{2.5} nonattainment areas. Nitrogen oxides are presumed to be precursors to PM_{2.5} in all PM_{2.5} nonattainment areas unless the administrative authority demonstrates to the administrator's satisfaction or EPA demonstrates that emissions of nitrogen oxides from sources in a specific area are not a significant contributor to that area's ambient PM_{2.5} concentrations. Volatile organic compounds and ammonia are presumed not to be precursors to PM_{2.5} in any PM_{2.5} nonattainment area unless the administrative authority demonstrates to the administrator's satisfaction or EPA demonstrates that emissions of volatile organic compounds or ammonia from sources in a specific area are a significant contributor to that area's ambient PM_{2.5} concentrations.

VOC = volatile organic compounds
 NO_x = oxides of nitrogen

- CO = carbon monoxide
 SO₂ = sulfur dioxide
 PM₁₀ = particulate matter of less than 10 microns in diameter
PM_{2.5} = particulate matter of less than 2.5 microns in diameter

M. - M.3. ...

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2054.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Air Quality and Radiation Protection, Air Quality Division, LR 19:176 (February 1993), repromulgated LR 19:486 (April 1993), amended LR 19:1420 (November 1993), LR 21:1332 (December 1995), LR 23:197 (February 1997), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:2445 (November 2000), LR 27:2225 (December 2001), LR 30:752 (April 2004), amended by the Office of Environmental Assessment, LR 30:2801 (December 2004), amended by the Office of the Secretary, Legal Affairs Division, LR 31:2436 (October 2005), LR 31:3123, 3155 (December 2005), LR 32:1599 (September 2006), LR 33:2082 (October 2007), LR 34:1890 (September 2008), LR 37:1568 (June 2011).

§509. Prevention of Significant Deterioration

A. - A.5. ...

B. Definitions. For the purpose of this Section, the terms below shall have the meaning specified herein as follows.

* * *

~~*Malfunctions—*for purposes of this Section, *malfunctions* shall include any such emissions authorized by permit, variance, or the on-line operating adjustment provisions of LAC 33:III.1507.B and 2307.C.2, but exclude any emissions that are not compliant with federal or state standards.~~ Repealed.

* * *

Regulated New Source Review (NSR) Pollutant—

a. any pollutant for which a national ambient air quality standard has been promulgated ~~and or~~ any constituents or precursors for ~~such the identified~~ pollutants ~~identified by the administrative authority (e.g., volatile organic compounds and nitrogen oxides are precursors for ozone);~~ Precursors identified by the administrative authority for purposes of PSD include the following:

i. volatile organic compounds and nitrogen oxides are precursors to ozone in all attainment and unclassifiable areas;

ii. sulfur dioxide is a precursor to PM_{2.5} in all attainment and unclassifiable areas;

iii. nitrogen oxides are presumed to be precursors to PM_{2.5} in all attainment and unclassifiable areas unless the administrative authority demonstrates to the administrator's satisfaction or EPA demonstrates that emissions of nitrogen oxides from sources in a specific area are not a significant contributor to that area's ambient PM_{2.5} concentrations; and

iv. volatile organic compounds are presumed not to be precursors to PM_{2.5} in any attainment or unclassifiable area unless the administrative authority demonstrates to the administrator's satisfaction or EPA demonstrates that emissions of volatile organic compounds from sources in a specific area are a significant contributor to that area's ambient PM_{2.5} concentrations;

- b. any pollutant that is subject to any standard promulgated under Section 111 of the Clean Air Act;
- c. any Class I or II substance subject to a standard promulgated under or established by Title VI of the Clean Air Act; ~~or~~
- d. any pollutant that otherwise is subject to regulation under the Clean Air Act; except that any or all hazardous air pollutants either listed in Section 112 of the Clean Air Act or added to the list in accordance with Section 112(b)(2) of the Clean Air Act, which have not been delisted in accordance with Section 112(b)(3) of the Clean Air Act, are not *regulated NSR pollutants* unless the listed hazardous air pollutant is also regulated as a constituent or precursor of a general pollutant listed under Section 108 of the Clean Air Act; ~~or~~
- e. particulate matter (PM) emissions, PM_{2.5} emissions, and PM₁₀ emissions shall include gaseous emissions from a source or activity which condense to form particulate matter at ambient temperatures. On or after January 1, 2011, such condensable particulate matter shall be accounted for in applicability determinations and in establishing emissions limitations for PM, PM_{2.5}, and PM₁₀ in PSD permits. Compliance with emissions limitations for PM, PM_{2.5}, and PM₁₀ issued prior to this date shall not be based on condensable ~~particular~~ particulate matter. Applicability determinations made prior to this date without accounting for condensable ~~particular~~ particulate matter shall not be considered in violation of this Section.

* * *

Significant—

- a. 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:

Pollutant	Emission Rate
Carbon monoxide	100 tons per year (tpy)
Nitrogen oxides	40 tpy
Sulfur dioxide	40 tpy
Particulate matter	25 tpy of particulate emissions
	15 tpy of PM ₁₀ emissions
	10 tpy of direct PM _{2.5} emissions; <u>40 tpy of sulfur dioxide emissions; 40 tpy of nitrogen oxide emissions¹</u>
Ozone	40 tpy of volatile organic compounds or nitrogen oxides
Lead	0.6 tpy
Fluorides	3 tpy
Sulfuric acid mist	7 tpy
Hydrogen sulfide (H ₂ S)	10 tpy
Total reduced sulfur (including H ₂ S)	10 tpy
Reduced sulfur compounds (including H ₂ S)	10 tpy

Pollutant	Emission Rate
Municipal waste combustor organics ⁺²	0.0000035 tpy
Municipal waste combustor metals ²³	15 tpy
Municipal waste combustor acid gases ³⁴	40 tpy
Municipal solid waste landfills emissions ⁴⁵	50 tpy
GHGs (as CO₂e)⁵⁶	75,000 tpy
GHGs and GHGs as CO ₂ e	0 tpy and 75,000 tpy, respectively ⁵⁶
⁺ Measured as total tetra- through octa-chlorinated dibenzo-p-dioxins and dibenzofurans. ² Measured as particulate matter. ³ Measured as sulfur dioxide and hydrogen chloride. ⁴ Measured as nonmethane organic compounds. ⁵ Both of the following conditions must be met: (1) the net emissions increase of GHGs calculated as the sum of the six GHGs on a mass basis (i.e., no global warming potentials applied) equals or exceeds 0 tpy; and (2) the net emissions increase of GHGs calculated as the sum of the six GHGs on a CO ₂ e basis (i.e., global warming potentials applied) equals or exceeds 75,000 tpy CO ₂ e. ⁶ Effective January 2, 2011	

b. - d.ii. ...

* * *

C. - AA.15.b. ...

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2054.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Air Quality and Nuclear Energy, Air Quality Division, LR 13:741 (December 1987), amended LR 14:348 (June 1988), LR 16:613 (July 1990), amended by the Office of Air Quality and Radiation Protection, Air Quality Division, LR 17:478 (May 1991), LR 21:170 (February 1995), LR 22:339 (May 1996), LR 23:1677 (December 1997), LR 24:654 (April 1998), LR 24:1284 (July 1998), repromulgated LR 25:259 (February 1999), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:2447 (November 2000), LR 27:2234 (December 2001), amended by the Office of the Secretary, Legal Affairs Division, LR 31:2437 (October 2005), LR 31:3135, 3156 (December 2005), LR 32:1600 (September 2006), LR 32:1843 (October 2006), LR 36:2556 (November 2010), HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Air Quality and Nuclear Energy, Air Quality Division, LR 13:741 (December 1987), amended LR 14:348 (June 1988), LR 16:613 (July 1990), amended by the Office of Air Quality and Radiation Protection, Air Quality Division, LR 17:478 (May 1991), LR 21:170 (February 1995), LR 22:339 (May 1996), LR 23:1677 (December 1997), LR 24:654 (April 1998), LR 24:1284 (July 1998), repromulgated LR 25:259 (February 1999), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:2447 (November 2000), LR 27:2234 (December 2001), amended by the Office of the Secretary, Legal Affairs Division, LR 31:2437 (October 2005), LR 31:3135, 3156 (December 2005), LR

32:1600 (September 2006), LR 32:1843 (October 2006), LR 36:2556 (November 2010), LR 37:1148 (April 2011), repromulgated LR 37:1389 (May 2011), LR 37:1570 (June 2011).