

SUBPART 231-13

TABLES AND EMISSION THRESHOLDS

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Historical Note

Subpart (§§ 231-13.1—231-13.9) filed Jan. 20, 2009 eff. 30 days after filing.

§ 231-13.1 Table 1—Major facility thresholds and offset ratios for ozone nonattainment areas and the ozone transport region.

<i>Area/Contaminant Classification</i>	<i>Major Facility Threshold (tons per year¹)</i>	<i>Offset Ratio</i>
Marginal, Moderate, or Ozone Transport Region		
VOC	50	At least 1.15:1
NO _x	100	At least 1.15:1
Severe		
VOC	25	At least 1.3:1
NO _x	25	At least 1.3:1

¹ tons per year (tpy)

Historical Note

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§ 231-13.2 Table 2—Major facility thresholds and offset ratios for PM nonattainment areas.

<i>Area/Contaminant Classification</i>	<i>Major Facility Threshold (tpy)</i>	<i>Offset Ratio</i>
Moderate		
PM-10 ¹	100	At least 1:1
No classification		
PM-2.5 ¹	100	At least 1:1
PM-2.5 Precursors		
SO ₂	100	At least 1:1
NO _x	100	At least 1:1

¹ both the filterable and condensable fractions are to be included (see definitions of PM-10 and PM-2.5 in Part 200 of this Title).

Historical Note

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§ 231-13.3 Table 3—Significant project thresholds, significant net emission increase thresholds, and offset ratios for ozone nonattainment areas and the ozone transport region.

<i>Area/Contaminant Classification</i>	<i>Significant Project Threshold (tpy)¹</i>	<i>Significant Net Emission Increase Threshold (tpy)</i>	<i>Offset Ratio</i>
Marginal, Moderate, or Ozone Transport Region			
VOC	40	40	At least 1.15:1
NO _x	40	40	At least 1.15:1
Severe			
VOC	2.5	>25	At least 1.3:1
NO _x	2.5	>25	At least 1.3:1

¹ project emission potential threshold.

Historical Note

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§ 231-13.4 Table 4—Significant project thresholds, significant net emission increase thresholds, and offset ratios for PM nonattainment areas.

<i>Area/Contaminant Classification</i>	<i>Significant Project Threshold (tpy)²</i>	<i>Significant Net Emission Increase Threshold (tpy)</i>	<i>Offset Ratio</i>
Moderate			
PM-10 ¹	15	15	At least 1:1
No classification			
PM-2.5 ¹	10	10	At least 1:1
PM-2.5 Precursors			
SO ₂	40	40	At least 1:1
NO _x	40	40	At least 1:1

¹both filterable and condensable fractions are to be included (see definitions of PM-10 and PM-2.5 in Part 200 of this Title).

² project emission potential threshold.

Historical Note

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§ 231-13.5 Table 5—Major facility thresholds for attainment and unclassified areas.

<i>Contaminant</i>	<i>Major Facility Threshold (tpy)¹</i>
Carbon monoxide	100/250
Nitrogen oxides	100/250
Sulfur dioxide	100/250

Particulate matter	100/250
Particulate matter: PM-10 emissions ²	100/250
Particulate matter: PM-2.5 emissions ²	100/250
Ozone: as VOCs or NO _x	100/250
Lead (elemental)	100/250
Fluorides	100/250
Sulfuric acid mist	100/250
Hydrogen sulfide (H ₂ S)	100/250
Total reduced sulfur (including H ₂ S)	100/250
Reduced sulfur compounds (including H ₂ S)	100/250
Municipal waste combustor organics (measured as total tetra through octa-chlorinated dibenzo-p-dioxins and dibenzofurans)	100/250
Municipal waste combustor metals (measured as particulate matter)	100/250
Municipal waste combustor acid gases (measured as sulfur dioxide and hydrogen chloride)	100/250
Municipal solid waste landfills emissions (measured as nonmethane organic compounds)	100/250
Greenhouse gases	100/250 and 100,000 ³
Any other regulated NSR contaminant	100/250

¹ 100 tpy threshold applies if the facility is one of the source categories listed in section 201-2.1(b)(21)(iii)(a) through (z) of this Title.

² both filterable and condensable fractions are to be included (see definitions of PM-10 and PM-2.5 in Part 200 of this Title).

³ measured as CO₂ equivalents.

Historical Note

Sec. filed Jan. 20, 2009; amds. filed: Dec. 29, 2010 as emergency measure; March 28, 2011 as emergency measure; May 26, 2011 as emergency measure; July 19, 2011 as emergency measure; Sept. 16, 2011 as emergency measure; Sept. 15, 2011 eff. 30 days after filing.

§ 231-13.6 Table 6—Significant project thresholds and significant net emission increase thresholds for attainment and unclassified areas.

<i>Contaminant</i>	<i>Significant Project Threshold¹/ Significant Net Emission Increase Threshold</i>
Carbon monoxide	100 tpy
Nitrogen oxides	40 tpy
Sulfur dioxide	40 tpy
Particulate matter	25 tpy
Particulate matter: PM-10 emissions ²	15 tpy
Particulate matter: PM-2.5 emissions ²	10 tpy
Ozone: as VOCs or NO _x	40 tpy
Lead (elemental)	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
Municipal waste combustor organics (measured as total tetra through octa-chlorinated dibenzo-p-dioxin and dibenzofurans)	3.2 × 10 ⁻⁶ megagrams per year (3.5 × 10 ⁻⁶ tpy)
Municipal waste combustor metals (measured as particulate matter)	14 megagrams per year (15 tpy)
Municipal waste combustor acid gases (measured as sulfur dioxide and hydrogen chloride)	36 megagrams per year (40 tpy)
Municipal solid waste landfills emissions (measured as nonmethane organic compounds)	45 megagrams per year (50 tpy)

Greenhouse gases	Any increase and 75,000 tpy ³
Any other regulated NSR contaminant	Any increase

¹ project emission potential threshold.

² both filterable and condensible fractions are to be included (see definitions of PM-10 and PM-2.5 in Part 200 of this Title).

³ measured as CO₂ equivalents.

Historical Note

Sec. filed Jan. 20, 2009; amds. filed: Dec. 29, 2010 as emergency measure; March 28, 2011 as emergency measure; May 26, 2011 as emergency measure; July 19, 2011 as emergency measure; Sept. 16, 2011 as emergency measure; Sept. 15, 2011 eff. 30 days after filing.

§ 231-13.7 Table 7—Federal class I variance maximum allowable increase concentrations.

<i>Contaminant</i>	<i>Maximum allowable increase (micrograms per cubic meter)</i>
Particulate Matter:	
PM-10, annual arithmetic mean ¹	17
PM-10, 24-hr maximum ¹	30
PM-2.5, annual arithmetic mean ¹	4
PM-2.5, 24-hr maximum ¹	9
Sulfur dioxide:	
Annual arithmetic mean	20
24-hr maximum	91
3-hr maximum	325
Nitrogen dioxide:	
Annual arithmetic mean	25

¹ both filterable and condensible fractions are to be included (see definitions of PM-10 and PM-2.5 in Part 200 of this Title).

Historical Note

Sec. filed Jan. 20, 2009; amds. filed: Dec. 29, 2010 as emergency measure; March 28, 2011 as emergency measure; May 26, 2011 as emergency measure; July 19, 2011 as emergency measure; Sept. 16, 2011 as emergency measure; Sept. 15, 2011 eff. 30 days after filing.

§ 231-13.8 Table 8—Maximum allowable increase in SO₂ concentrations for gubernatorial variances.

<i>Period of exposure</i>	<i>Maximum Allowable Increase (Micrograms per cubic meter)</i>	
	<i>Terrain areas</i>	
	<i>Below 900 ft</i>	<i>At or above 900 ft</i>
24-hr maximum	36	62
3-hr maximum	130	221

Historical Note

Sec. filed Jan. 20, 2009 eff. 30 days after filing.

§ 231-13.9 Table 9—Global warming potential values for calculating CO₂ equivalents.

<i>Greenhouse Gas</i>	<i>Global Warming Potential</i>
CO ₂	1
CH ₄	21

N ₂ O	310
SF ₆	23,900
Hydrofluorocarbons (HFC)	12 to 11,700 ¹
Perfluorocarbons (PFC)	6,500 to 9,200 ¹

¹ see 74 FR 56395-56396, Table A-1, for specific values of HFC and PFC (see Table 1, section 200.9 of this Title).

Historical Note

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