

Title 7 Natural Resources and Environmental Control

1100 Air Quality Management Section

1130 Title V State Operating Permit Program

11/15/1993-xx/xx/xx

2.0 Definitions

“Major source”

(2) A major stationary source of air pollutants, as defined in section 302 (Title III - General Definitions) of the Act, that directly emits or has the potential to emit, 100 tpy or more of any air pollutant subject to regulation (including any major source of fugitive emissions of any such pollutant, as determined by rule by the Administrator). The fugitive emissions of a stationary source shall not be considered in determining whether it is a major stationary source for the purposes of section 302(j) (Title III - General Definitions) of the Act, unless the source belongs to one of the following categories of stationary sources:

“Subject to regulation” means, for any air pollutant, that the pollutant is subject to either a provision in the Clean Air Act, or a nationally-applicable regulation codified by the EPA, that requires actual control of the quantity of emissions of that pollutant, and that such a control requirement has taken effect and is operative to control, limit or restrict the quantity of emissions of that pollutant released from the regulated activity. Except that:

(1) Greenhouse gases (GHG), the air pollutant defined in 40 CFR 86.1818 – 12(a) as the aggregate group of six greenhouse gases: carbon dioxide (CO₂), nitrous oxide (N₂O), methane (CH₄), hydrofluorocarbons (HFC), perfluorocarbons (PFC), and sulfur hexafluoride (SF₆), shall not be subject to regulation unless, as of July

1, 2011, the GHG emissions are at a stationary source emitting or having the potential to emit 100,000 tpy CO₂ equivalent emissions.

(2) The term tpy CO₂ equivalent emissions (CO₂e) shall represent an amount of GHG emitted, and shall be computed by multiplying the mass amount of emissions (tpy), for each of the six greenhouse gases in the pollutant GHG, by the gas's associated global warming potential as shown in Table 2-1 of this regulation "Global Warming Potentials", and summing the resultant value for each to compute a tpy CO₂e.

Table 2-1

GLOBAL WARMING POTENTIALS

| <u>Name</u> | <u>CAS No.</u> | <u>Chemical formula</u> | <u>Global warming potential (100 yr.)</u> |
|-----------------------|--------------------|---|---|
| <u>Carbon dioxide</u> | <u>124-38-9</u> | <u>CO₂</u> | <u>1</u> |
| <u>Methane</u> | <u>74-82-8</u> | <u>CH₄</u> | <u>21</u> |
| <u>Nitrous oxide</u> | <u>10024-97-2</u> | <u>N₂O</u> | <u>310</u> |
| <u>HFC-23</u> | <u>75-46-7</u> | <u>CHF₃</u> | <u>11,700</u> |
| <u>HFC-32</u> | <u>75-10-5</u> | <u>CH₂F₂</u> | <u>650</u> |
| <u>HFC-41</u> | <u>593-53-3</u> | <u>CH₃F</u> | <u>150</u> |
| <u>HFC-125</u> | <u>354-33-6</u> | <u>C₂HF₅</u> | <u>2,800</u> |
| <u>HFC-134</u> | <u>359-35-3</u> | <u>C₂H₂F₄</u> | <u>1,000</u> |
| <u>HFC-134a</u> | <u>811-97-2</u> | <u>CH₂FCF₃</u> | <u>1,300</u> |
| <u>HFC-143</u> | <u>430-66-0</u> | <u>C₂H₃F₃</u> | <u>300</u> |
| <u>HFC-143a</u> | <u>420-46-2</u> | <u>C₂H₃F₃</u> | <u>3,800</u> |
| <u>HFC-152</u> | <u>624-72-6</u> | <u>CH₂FCH₂F</u> | <u>53</u> |
| <u>HFC-152a</u> | <u>75-37-6</u> | <u>CH₃CHF₂</u> | <u>140</u> |
| <u>HFC-161</u> | <u>353-36-6</u> | <u>CH₃CH₂F</u> | <u>12</u> |
| <u>HFC-227ea</u> | <u>431-89-0</u> | <u>C₃HF₇</u> | <u>2,900</u> |
| <u>HFC-236cb</u> | <u>677-56-5</u> | <u>CH₂FCF₂CF₃</u> | <u>1,340</u> |
| <u>HFC-236ea</u> | <u>431-63-0</u> | <u>CHF₂CHF₂CF₃</u> | <u>1,370</u> |
| <u>HFC-236fa</u> | <u>690-39-1</u> | <u>C₃H₂F₆</u> | <u>6,300</u> |
| <u>HFC-245ca</u> | <u>679-86-7</u> | <u>C₃H₃F₅</u> | <u>560</u> |
| <u>HFC-245fa</u> | <u>460-73-1</u> | <u>CHF₂CH₂CF₃</u> | <u>1,030</u> |
| <u>HFC-365mfc</u> | <u>406-58-6</u> | <u>CH₃CF₂CH₂CF₃</u> | <u>794</u> |
| <u>HFC-43-10mee</u> | <u>138495-42-8</u> | <u>CF₃CFHCFHCF₂CF₃</u> | <u>1,300</u> |

| | | | |
|--|------------------|-------------------------------------|---------------|
| <u>Sulfur hexafluoride</u> | <u>2551-62-4</u> | <u>SF₆</u> | <u>23,900</u> |
| <u>PFC-14 (Perfluoromethane)</u> | <u>75-73-0</u> | <u>CF₄</u> | <u>6,500</u> |
| <u>PFC-116 (Perfluoroethane)</u> | <u>76-16-4</u> | <u>C₂F₆</u> | <u>9,200</u> |
| <u>PFC-218 (Perfluoropropane)</u> | <u>76-19-7</u> | <u>C₃F₈</u> | <u>7,000</u> |
| <u>Perfluorocyclopropane</u> | <u>931-91-9</u> | <u>C-C₃F₆</u> | <u>17,340</u> |
| <u>PFC-3-1-10 (Perfluorobutane)</u> | <u>355-25-9</u> | <u>C₄F₁₀</u> | <u>7,000</u> |
| <u>Perfluorocyclobutane</u> | <u>115-25-3</u> | <u>C-C₄F₈</u> | <u>8,700</u> |
| <u>PFC-4-1-12 (Perfluoropentane)</u> | <u>678-26-2</u> | <u>C₅F₁₂</u> | <u>7,500</u> |
| <u>PFC-5-1-14 (Perfluorohexane)</u> | <u>355-42-0</u> | <u>C₆F₁₄</u> | <u>7,400</u> |
| <u>PFC-9-1-18</u> | <u>306-94-5</u> | <u>C₁₀F₁₈</u> | <u>7,500</u> |