

**RULE 1304 – EMISSIONS CALCULATIONS**

*(Adopted: 07/21/80) (Amended: 10/27/93; 03/25/96; 09/24/01)*

(A) General

(1) Purpose

- (a) This rule provides the procedures and formulas to calculate emissions increases and decreases for new or modified Facilities. The results of such calculations shall be used to:
  - (i) Determine the applicability of the provisions of District Rule 1303.
  - (ii) Calculate SERs generated within the same Facility to reduce Proposed Emissions.
  - (iii) Determine the Potential to Emit for new or modified Facilities and Emissions Unit(s).

(B) Calculating Emissions Changes in a Facility

(1) General Emissions Calculations

- (a) The emissions change for a new or modified Facility or Emissions Unit(s) shall be calculated, in pounds per day, by subtracting Historic Actual Emissions from Proposed Emissions.

Emissions Change = (Proposed Emissions) - (Historic Actual Emissions)

(C) Calculating Simultaneous Emissions Reductions.

- (1) SERs as defined in District Rule 1301(EEE) may result from the Modification or shut down of Existing Emission Unit(s) so long as the resulting reductions are Federally Enforceable, real enforceable permanent, quantifiable, surplus and are reductions in Actual Emissions of the Emissions Unit(s).

- (2) SERs resulting from the Modification or shut down of existing Emission Unit(s) within the same Facility shall be calculated as follows:
- (a) For the shutdown of Emissions Unit;  
$$\text{SER} = \text{Historic Actual Emissions}$$
  - (b) For Modifications or limitations on operations of Emission Unit(s);  
$$\text{SER} = (\text{Historic Actual Emissions}) - (\text{Proposed Emissions})$$
  - (c) For shutdown, Modifications or limitations on mobile, area or indirect sources of emissions;
    - (i) Any calculation formula and protocol as approved by the District, CARB and USEPA.
- (3) SERs calculated pursuant to subsection (C)(2) above shall thereafter be adjusted to reflect emissions reductions which are otherwise required by Federal, State or District law, rule, order, permit or regulation as follows:
- (a) SERs shall be adjusted to reflect only the excess reductions beyond those already achieved by, or achievable by, the Emissions Unit using RACT.
  - (b) SERs shall be adjusted to reflect only the excess reductions beyond those required by applicable District Rules and Regulations.
  - (c) SERs shall be adjusted to reflect only the excess reductions beyond those required by any applicable proposed District Rules and Regulations which have been taken to public workshop.
  - (d) SERs shall be adjusted to reflect the excess reductions beyond those required by any control measures identified in the District's Air Quality Attainment Plan or contained in the State Implementation Plan of the District and which have not yet been implemented in the form of District Rules and/or Regulations.
- (4) Positive SERs as calculated above may only be used to reduce Proposed Emissions as calculated pursuant to section (D)(1), for purposes of determining applicability of District Rule 1303(B).
- (5) Prior to use, SERs must be approved by the APCO.

(D) Calculation of Terms Used in Rule 1304

(1) Proposed Emissions

- (a) For a new Facility or Emissions Unit(s), the Proposed Emissions shall be equal to the Potential to Emit as defined in District Rule 1301(UU) for that Facility or Emissions Unit and as calculated pursuant to subsection (D)(3) below.
- (b) For a modified Facility or Emissions Unit(s) the Proposed Emissions shall be equal to the Potential to Emit as defined in District Rule 1301(UU) after modification for that Facility or Emissions and as calculated pursuant to subsection (D)(3) below.

(2) Historic Actual Emissions (HAE)

- (a) HAE equal the Actual Emissions of an Emissions Unit or combination of Emissions Units, including Fugitive Emissions directly related to those Emissions Unit(s), calculated in pounds per year, as follows:
  - (i) The verified Actual Emissions of an Emissions Unit, or combination of Emissions Units, averaged from the two year period which immediately proceeds the date of application and which is representative of Facility operations; or
  - (ii) The verified Actual Emissions of an Emissions Unit, or combination of Emissions Units, averaged for any two years of the five year period which immediately precedes the date of application which the APCO has determined is more representative of Facility operations than subsection (1) above.
  - (iii) If an Emissions Unit has been in operation for less than one year, the HAE shall be equal to zero.
  - (iv) For purposes of Section (B) above, in the case of a modified Facility, HAE for an Emission Unit may be equal to the Potential to Emit for that Emission Unit, as indicated by a Federally Enforceable Emissions Limitation, if all the emissions from that Emissions Unit have been previously offset in a documented prior permitting action pursuant to Regulation XIII or prior rules 203.1, 203.2, 213, 213.1, 213.2 and 213.3.

(3) Potential To Emit

(a) The Potential to Emit for a Facility, for the purpose of this Rule, shall be calculated as follows:

- (i) The sum of the Potentials to Emit for all existing Permit Units as defined pursuant to District Rule 1301(SS); and
- (ii) Any emissions increases from proposed new or modified Permit Units as calculated pursuant to subsection (B) above; and
- (iii) Any Emission Reduction Credits issued and banked pursuant to the provisions of District Regulation XIV shall be included in the calculations of a Facility's Potential to Emit.

[SIP: Submitted as amended 09/24/01 on \_\_\_\_\_; Approved 11/13/96, 61 FR 58133, 40 CFR 52.220(c)(239)(I)(A)(1); Submitted as amended 10/27/93 on 3/29/94; Conditional Approval 6/9/82, 47 FR 24013, 40 CFR 52.220(c)(87)(iv)(A) and 40 CFR 52.232(a)(13)(i)(A)]