

## Question 13.15

**Topic:** Reporting -- Diluent Cap

**Question:** Appendix F of Part 75 allow us to calculate NO<sub>x</sub> emission rate by substituting a diluent cap CO<sub>2</sub> concentration of 5.0% for boilers or 1.0% for turbines or an O<sub>2</sub> diluent cap concentration of 14.0% for boilers or 19.0% for turbines for a measured CEM reading whenever the diluent concentration is below 5.0% CO<sub>2</sub> for boilers or 1.0% for turbines or above 14.0% O<sub>2</sub> for boilers or 19.0% for turbines. Are hours when the diluent cap value is substituted for a CEM value considered missing data, resulting in lower percent monitor data availability for NO<sub>x</sub> emission rate?

**Answer:** No. You may only use the diluent cap for NO<sub>x</sub> emission rate, and only for hours when the diluent monitor is measuring valid, quality-assured data. Therefore, the calculated NO<sub>x</sub> emission rates for these hours count as quality-assured data. They are used in the lookback periods for substitute data and they count as quality-assured hours for the purposes of calculating percent monitor data availability (PMA). If the diluent monitor is not measuring valid, quality-assured data, use the missing data procedures in subpart D of Part 75 (§ 75.31 or § 75.33 for NO<sub>x</sub>, § 75.31 or § 75.35 for CO<sub>2</sub>, and § 75.36 for heat input rate).

**References:** §§ 75.31, 75.33, 75.35, and 75.36; Appendix F, Sections 3.3.4, 4.1, 4.4.1, 5.2.1, 5.2.2, 5.2.3, 5.2.4

**History:** First published in November 1995, Update #7; revised in October 1999 Revised Manual; revised in 2013 Manual