§ 75.34 Units with add-on emission controls.

(a) The owner or operator of an affected unit equipped with add-on SO₂ and/or NOₓ emission controls shall provide substitute data in accordance with paragraphs (a)(1), through (a)(5) of this section for each hour in which quality-assured data from the outlet SO₂ and/or NOₓ monitoring system(s) are not obtained.

(1) The owner or operator may use the missing data substitution procedures specified in §§75.31 through 75.33.
to provide substitute data for any missing data hour(s) in which the add-on emission controls are documented to be operating properly, as described in the quality assurance/quality control program for the unit, required by section 1 in appendix B of this part. To provide the necessary documentation, the owner or operator shall, for each missing data period, record parametric data to verify the proper operation of the \( \text{SO}_2 \) or \( \text{NO}_X \) add-on emission controls during each hour, as described in paragraph (d) of this section. For any missing data hour(s) in which such parametric data are either not provided or, if provided, do not demonstrate that proper operation of the \( \text{SO}_2 \) or \( \text{NO}_X \) add-on emission controls has been maintained, the owner or operator shall substitute (as applicable) the maximum potential \( \text{NO}_X \) concentration (MPC) as defined in section 2.1.2.1 of appendix A to this part, the maximum potential \( \text{SO}_2 \) emission rate, as defined in §72.2 of this chapter, or the maximum potential concentration for \( \text{SO}_2 \), as defined by section 2.1.1.1. Alternatively, for \( \text{SO}_2 \) or \( \text{NO}_X \), the owner or operator may substitute, if available, the hourly \( \text{SO}_2 \) or \( \text{NO}_X \) concentration recorded by a certified inlet monitor, in lieu of the MPC. For each hour in which data from an inlet monitor are reported, the owner or operator shall use a method of determination code (MODC) of “22” (see Table 4a in §75.57). In addition, under §75.64(c), the designated representative shall submit as part of each electronic quarterly report, a certification statement, verifying the proper operation of the \( \text{SO}_2 \) or \( \text{NO}_X \) add-on emission control for each missing data period in which the missing data procedures of §§75.31 through 75.33 were applied; or

(2) This paragraph, (a)(2), applies only to a unit which, as provided in §75.74(a) or §75.74(b)(1), reports \( \text{NO}_X \) mass emissions on a year-round basis under a state or Federal \( \text{NO}_X \) mass emissions reduction program that adopts the emissions monitoring provisions of this part. If the add-on \( \text{NO}_X \) emission controls installed on such a unit are operated only during the ozone season or are operated in a more efficient manner during the ozone season than outside the ozone season, the owner or operator may implement the missing data provisions of paragraph (a)(1) of this section in the following alternative manner:

(i) The historical, quality-assured \( \text{NO}_X \) emission rate or \( \text{NO}_X \) concentration data may be separated into two categories, i.e., data recorded inside the ozone season and data recorded outside the ozone season;

(ii) For the purposes of the missing data lookback periods described under §§75.33(c)(1), (c)(2), (c)(3) and (c)(5) of this section, the substitute data values shall be taken from the appropriate database, depending on the date(s) and hour(s) of the missing data period. That is, if the missing data period occurs inside the ozone season, the ozone season data shall be used to provide substitute data. If the missing data period occurs outside the ozone season, data from outside the ozone season shall be used to provide substitute data.

(iii) A missing data period that begins outside the ozone season and continues into the ozone season shall be considered to be two separate missing data periods, one ending on April 30, hour 23, and the other beginning on May 1, hour 00;

(iv) For missing data hours outside the ozone season, the procedures of §75.33 may be applied unconditionally, i.e., documentation of the operational status of the emission controls is not required in order to apply the standard missing data routines.

(3) For each missing data hour in which the percent monitor data availability for \( \text{SO}_2 \) or \( \text{NO}_X \), calculated in accordance with §75.32, is less than 90.0 percent and is greater than or equal to 80.0 percent; and parametric data establishes that the add-on emission controls were operating properly (i.e., within the range of operating parameters provided in the quality assurance/quality control program) during the hour, the owner or operator may:

(i) Replace the maximum \( \text{SO}_2 \) concentration recorded in the 720 quality-assured monitor operating hours immediately preceding the missing data period, with the maximum controlled \( \text{SO}_2 \) concentration recorded in the previous 720 quality-assured monitor operating hours; or
§ 75.34

(i) Replace the maximum NOX concentration(s) or NOX emission rate(s) from the appropriate load bin(s) (based on a lookback through the 2,160 quality-assured monitor operating hours immediately preceding the missing data period), with the maximum controlled NOX concentration(s) or emission rate(s) from the appropriate load bin(s) in the same 2,160 quality-assured monitor operating hour lookback period.

(ii) The designated representative may petition the Administrator under §75.66 for approval of site-specific parametric monitoring procedure(s) for calculating substitute data for missing NOX concentration or 1.25 times the maximum emission rate data prior to receiving the Administrator’s approval for a parametric monitoring procedure.

(b) For an affected unit equipped with add-on SO2 emission controls, the designated representative may petition the Administrator to approve a parametric monitoring procedure, as described in appendix C of this part, for providing substitute data for missing SO2 concentration data in lieu of reporting the data required in appendix C to this part, pursuant to §75.58(b).

(c) For an affected unit with NOX add-on emission controls, the designated representative may petition the Administrator to approve a parametric monitoring procedure, as described in appendix C of this part, to approve substitute NOX concentration data for missing data periods. The owner or operator shall use the procedures in §§75.31, 75.33, or 75.34(a) for providing substitute data for missing SO2 concentration data unless a parametric monitoring procedure has been approved by the Administrator.

(1) Where the monitor data availability is 90.0 percent or more for an outlet SO2 pollutant concentration monitor, the owner or operator may calculate substitute data using an approved parametric monitoring procedure.

(2) Where the monitor data availability for an outlet SO2 pollutant concentration monitor is less than 90.0 percent, the owner or operator shall calculate substitute data using the procedures in §75.34(a) (1) or (2), even if the Administrator has approved a parametric monitoring procedure.

(3) For the purposes of implementing the missing data options in paragraphs (a)(5)(i) through (a)(5)(iii) of this section, the maximum expected SO2 and NOX concentrations shall be determined, respectively, according to sections 2.1.1.2 and 2.1.2.2 of appendix A to this part. The MCR shall be calculated according to the basic procedure described in section 2.1.2.1(b) of appendix A to this part, except that the words “maximum potential NOX emission rate (MER)” shall be replaced with the words “maximum controlled NOX emission rate (MCR)” and the NOX MEC shall be used instead of the NOX MPC.

(4) For each missing data hour in which the percent monitor data availability for SO2 or NOX, calculated in accordance with §75.32, is below 80.0 percent and parametric data establish that the add-on emission controls were operating properly (i.e. within the range of operating parameters provided in the quality assurance/quality control program), in lieu of reporting the maximum potential value, the owner or operator may substitute, as applicable, the greater of:

(i) The maximum expected SO2 concentration or 1.25 times the maximum hourly controlled SO2 concentration recorded in the previous 720 quality-assured monitor operating hours;

(ii) The maximum expected NOX concentration or 1.25 times the maximum hourly controlled NOX concentration recorded in the previous 2,160 quality-assured monitor operating hours at the corresponding unit load range or operational bin;

(iii) The maximum controlled hourly NOX emission rate (MCR) or 1.25 times the maximum hourly controlled NOX emission rate recorded in the previous 2,160 quality-assured monitor operating hours at the corresponding unit load range or operational bin;

(iv) For the purposes of implementing the missing data options in paragraphs (a)(5)(i) through (a)(5)(iii) of this section, the maximum expected SO2 and NOX concentrations shall be determined, respectively, according to sections 2.1.1.2 and 2.1.2.2 of appendix A to this part. The MCR shall be calculated according to the basic procedure described in section 2.1.2.1(b) of appendix A to this part, except that the words “maximum potential NOX emission rate (MER)” shall be replaced with the words “maximum controlled NOX emission rate (MCR)” and the NOX MEC shall be used instead of the NOX MPC.
(1) Where monitor data availability for a NO\textsubscript{X} continuous emission monitoring system is 90.0 percent or more, the owner or operator may calculate substitute data using an approved parametric monitoring procedure.

(2) Where monitor data availability for a NO\textsubscript{X} continuous emission monitoring system is less than 90.0 percent, the owner or operator shall calculate substitute data using the procedure in §75.34(a) (1) or (2), even if the Administrator has approved a parametric monitoring procedure.

(d) In order to implement the options in paragraphs (a)(1), (a)(3) and (a)(5) of this section; and §§75.31(c)(3) and 75.72(c)(3), the owner or operator shall keep records of information as described in §75.58(b)(3) to verify the proper operation of all add-on SO\textsubscript{2} or NO\textsubscript{X} emission controls, during all periods of SO\textsubscript{2} or NO\textsubscript{X} emission missing data. If the owner or operator elects to implement the missing data option in paragraph (a)(2) of this section, the records in §75.58(b)(3) are required to be kept only for the ozone season. The owner or operator shall provide substitute CO\textsubscript{2} pollutant concentration data or substitute CO\textsubscript{2} data for heat input determination, as applicable, according to the procedures in §75.31(b).

(c) [Reserved]

(d) Upon completion of 720 quality-assured monitor operating hours using the initial missing data procedures of §75.31(b), the owner or operator shall provide substitute data for CO\textsubscript{2} concentration or substitute CO\textsubscript{2} data for heat input determination, as applicable, in accordance with the procedures in §75.33(b) except that the term “CO\textsubscript{2} concentration” shall apply rather than “SO\textsubscript{2} concentration,” the term “CO\textsubscript{2} pollutant concentration monitor” or “CO\textsubscript{2} diluent monitor” shall apply rather than “SO\textsubscript{2} pollutant concentration monitor,” and the term “maximum potential CO\textsubscript{2} concentration, as defined in section 2.1.3.1 of appendix A to this part” shall apply, rather than “maximum potential SO\textsubscript{2} concentration.”

§75.35 Missing data procedures for CO\textsubscript{2}

(a) The owner or operator of a unit with a CO\textsubscript{2} continuous emission monitoring system for determining CO\textsubscript{2} mass emissions in accordance with §75.10 (or an O\textsubscript{2} monitor that is used to determine CO\textsubscript{2} concentration in accordance with appendix F to this part) shall substitute for missing CO\textsubscript{2} pollutant concentration data using the procedures of paragraphs (b) and (d) of this section.

(b) During the first 720 quality-assured monitor operating hours following initial certification at a particular unit or stack location (i.e., the date and time at which quality-assured data begins to be recorded by a CEMS at that location), or (when implementing these procedures for a previously certified CO\textsubscript{2} monitoring system) during the 720 quality-assured monitor operating hours preceding implementation of the standard missing data procedures in paragraph (d) of this section, the owner or operator shall provide substitute CO\textsubscript{2} pollutant concentration data or substitute CO\textsubscript{2} data for heat input determination, as applicable, according to the procedures in §75.31(b).

§75.36 Missing data procedures for heat input rate determinations.

(a) When hourly heat input rate is determined using a flow monitoring system and a diluent gas (O\textsubscript{2} or CO\textsubscript{2}) monitor, substitute data must be provided to calculate the heat input whenever quality-assured data are unavailable from the flow monitor, the diluent gas monitor, or both. When flow rate data are unavailable, substitute flow rate data for the heat input rate calculation shall be provided according to §75.31 or §75.33, as applicable. When diluent gas