

(2) Whenever the monitor or continuous emission monitoring system data availability is at least 90.0 percent but less than 95.0 percent, the owner or operator shall calculate substitute data by means of the automated data acquisition and handling system for each hour of each missing data period according to the following procedures:

(i) For a missing data period of less than or equal to 8 hours, substitute, as applicable, the arithmetic average hourly flow rate or NO_x emission rate or NO_x concentration recorded by a monitoring system during the previous 2,160 quality-assured monitor operating hours at the corresponding unit load range, as determined using the procedure in appendix C to this part.

(ii) For a missing data period greater than 8 hours, substitute, as applicable, for each missing hour, the greater of:

(A) The 95th percentile hourly flow rate or the 95th percentile NO_x emission rate or the 95th percentile NO_x concentration recorded by a monitoring system during the previous 2,160 quality-assured monitor operating hours at the corresponding unit load range, as determined using the procedure in appendix C to this part; or

(B) The average of the hourly flow rates, NO_x emission rates or NO_x concentrations recorded by a monitoring system for the hour before and the hour after the missing data period.

(3) Whenever the monitor data availability is at least 80.0 percent but less than 90.0 percent, the owner or operator shall, by means of the automated data acquisition and handling system, substitute, as applicable, for each hour of each missing data period, the maximum hourly flow rate or the maximum hourly NO_x emission rate or the maximum hourly NO_x concentration recorded during the previous 2,160 quality-assured monitor operating hours at the corresponding unit load range, as determined using the procedure in section 2 of appendix C to this part.

(4) Whenever the monitor data availability is less than 80.0 percent, the owner or operator shall substitute, as applicable, for each hour of each missing data period, the maximum potential flow rate, as defined in section 2.1.4.1 of appendix A to this part, or the maximum NO_x emission rate, as de-

defined in section 2.1.2.1 of appendix A to this part, or the maximum potential NO_x concentration, as defined in section 2.1.2.1 of appendix A to this part.

(5) Whenever no prior quality-assured flow rate data, NO_x concentration data or NO_x emission rate data exist for the corresponding load range, the owner or operator shall substitute, as applicable, for each hour of missing data, the maximum hourly flow rate or the maximum hourly NO_x concentration or maximum hourly NO_x emission rate at the next higher level load range for which quality-assured data are available.

(6) Whenever no prior quality-assured flow rate data, NO_x concentration data or NO_x emission rate data exist for either the corresponding load range or a higher load range, the owner or operator shall substitute, as applicable, either the maximum potential NO_x emission rate or the maximum potential NO_x concentration, as defined in section 2.1.2.1 of appendix A to this part or the maximum potential flow rate, as defined in section 2.1.4.1 of appendix A to this part.

[58 FR 3701, Jan. 11, 1993, as amended at 60 FR 26529, May 17, 1995; 61 FR 25582, May 22, 1996; 64 FR 28602, May 26, 1999]

§ 75.34 Units with add-on emission controls.

(a) The owner or operator of an affected unit equipped with add-on SO₂ and/or NO_x emission controls shall use one of the following options for each hour in which quality-assured data from the outlet SO₂ and/or NO_x monitoring system(s) are not obtained:

(1) The owner or operator may use the missing data substitution procedures as specified for all affected units in §§ 75.31 through 75.33 to substitute data for each hour in which the add-on emission controls are operating within the proper parametric ranges specified in the quality assurance/quality control program for the unit, required by section 1 in appendix B of this part. The designated representative shall document in the quality assurance/quality control program the ranges of the add-on emission control operating

parameters that indicate proper operation of the controls. The owner or operator shall, for each missing data period, record data to verify the proper operation of the SO₂ or NO_x add-on emission controls during each hour, as described in paragraph (d) of this section. In addition, under § 75.64(c), the designated representative shall submit a certified verification of the proper operation of the SO₂ or NO_x add-on emission control for each missing data period at the end of each quarter.

(2) The designated representative may petition the Administrator under § 75.66 to replace the maximum recorded value in the last 720 quality-assured monitor operating hours with a value corresponding to the maximum controlled emission rate (an emission rate recorded when the add-on emission controls were operating) recorded during the last 720 quality-assured monitor operating hours. For such a petition, the designated representative must demonstrate that the following conditions are met: the monitor data availability, calculated in accordance with § 75.32, for the affected unit is below 90.0 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) during the time period under petition.

(3) 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 SO₂ pollutant concentration, NO_x pollutant concentration, and NO_x emission rate data in accordance with the requirements of paragraphs (b) and (c) of this section and appendix C to this part. The owner or operator shall record the data required in appendix C to this part, pursuant to § 75.55(b) or § 75.58(b), as applicable.

(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 calculating substitute SO₂ concentration data for missing data periods. The owner or operator shall use the proce-

dures 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.

(c) For an affected unit with NO_x 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, in order to calculate substitute NO_x emission rate data for missing data periods. The owner or operator shall use the procedures in § 75.31 or 75.33 for providing substitute data for missing NO_{x2} emission rate data prior to receiving the Administrator's approval for a parametric monitoring procedure.

(1) Where monitor data availability for a NO_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_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) The owner or operator shall keep records of information as described in subpart F of this part to verify the proper operation of the SO₂ or NO_x emission controls during all periods of SO₂ or NO_x emission missing data. The owner or operator shall provide these records to the Administrator or to the EPA Regional Office upon request. Whenever such data are not provided or such data do not demonstrate that

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proper operation of the SO₂ or NO_x add-on emission controls has been maintained in accordance with the range of add-on emission control operating parameters reported in the quality assurance/quality control program for the unit, the owner or operator shall substitute the maximum potential NO_x emission rate, as defined in § 72.2 of this chapter, to report the NO_x emission rate, and either the maximum hourly SO₂ concentration recorded by the inlet monitor during the previous 720 quality-assured monitor operating hours, if available, or the maximum potential concentration for SO₂, as defined by section 2.1.1.1. of appendix A of this part, to report SO₂ concentration for each hour of missing data until information demonstrating proper operation of the SO₂ or NO_x emission controls is available.

[60 FR 26567, May 17, 1995, as amended at 61 FR 59160, Nov. 20, 1996; 64 FR 28604, May 26, 1999]

§ 75.35 Missing data procedures for CO₂ data.

(a) On and after April 1, 2000, the owner or operator of a unit with a CO₂ continuous emission monitoring system for determining CO₂ mass emissions in accordance with § 75.10 (or an O₂ monitor that is used to determine CO₂ concentration in accordance with appendix F to this part) shall substitute for missing CO₂ pollutant concentration data using the procedures of paragraphs (b) and (d) of this section. The procedures of paragraphs (b) and (d) of this section shall also be used on and after April 1, 2000 to provide substitute CO₂ data for heat input determination. Prior to April 1, 2000, the owner or operator shall substitute for missing CO₂ data using either the procedures of paragraphs (b) and (c), or paragraphs (b) and (d) of this section.

(b) During the first 720 quality assured monitor operating hours following initial certification (i.e., the date and time at which quality assured data begins to be recorded by the CEMS), of the CO₂ continuous emission monitoring system, or (for a previously certified CO₂ monitoring system) during the 720 quality assured monitor operating hours preceding implementation of the standard missing data pro-

cedures in paragraph (d) of this section, the owner or operator shall provide substitute CO₂ pollutant concentration data or substitute CO₂ data for heat input determination, as applicable, according to the procedures in § 75.31(b).

(c) Upon completion of the first 720 quality-assured monitor operating hours following initial certification of the CO₂ continuous emission monitoring system, the owner or operator shall provide substitute data for CO₂ concentration or CO₂ mass emissions required under this subpart according to the procedures in paragraphs (c)(1), (c)(2), or (c)(3) of this section, including CO₂ data calculated from O₂ measurements using the procedures in appendix F of this part.

(1) Whenever a quality-assured monitoring operating hour of CO₂ concentration data has not been obtained and recorded for a period less than or equal to 72 hours or for a missing data period where the percent monitor data availability for the CO₂ continuous emission monitoring system as of the last unit operating hour of the previous calendar quarter was greater than or equal to 90.0 percent, then the owner or operator shall substitute the average of the recorded CO₂ concentration for the hour before and the hour after the missing data period for each hour in each missing data period.

(2) Whenever no quality-assured CO₂ concentration data are available for a period of 72 consecutive unit operating hours or more, the owner or operator shall begin substituting CO₂ mass emissions calculated using the procedures in appendix G of this part beginning with the seventy-third hour of the missing data period until quality-assured CO₂ concentration data are again available. The owner or operator shall use the CO₂ concentration from the hour before the missing data period to substitute for hours 1 through 72 of the missing data period.

(3) Whenever no quality-assured CO₂ concentration data are available for a period where the percent monitor data availability for the CO₂ continuous emission monitoring system as of the last unit operating hour of the previous calendar quarter was less than 90.0 percent, the owner or operator shall substitute CO₂ mass emissions calculated