

missing O₂ or CO₂ diluent concentration data used to calculate heat input, or missing moisture data, the owner or operator shall calculate the substitute data as follows:

(1) Whenever prior quality-assured data exist, the owner or operator shall substitute, by means of the data acquisition and handling system, for each hour of missing data, the average of the hourly SO₂, CO₂ or O₂ concentrations or moisture percentages recorded by a certified monitor for the unit operating hour immediately before and the unit operating hour immediately after the missing data period.

(2) Whenever no prior quality assured SO₂, CO₂ or O₂ concentration data or moisture data exist, the owner or operator shall substitute, as applicable, for each hour of missing data, the maximum potential SO₂ concentration or the maximum potential CO₂ concentration or the minimum potential O₂ concentration or (unless Equation 19-3, 19-4 or 19-8 in Method 19 in appendix A to part 60 of this chapter is used to determine NO_x emission rate) the minimum potential moisture percentage, as specified, respectively, in sections 2.1.1.1, 2.1.3.1, 2.1.3.2 and 2.1.5 of appendix A to this part. If Equation 19-3, 19-4 or 19-8 in Method 19 in appendix A to part 60 of this chapter is used to determine NO_x emission rate, substitute the maximum potential moisture percentage, as specified in section 2.1.6 of appendix A to this part.

(c) *Volumetric flow and NO_x emission rate or NO_x concentration data.* For each hour of missing volumetric flow rate data, NO_x emission rate data or NO_x concentration data used to determine NO_x mass emissions:

(1) Whenever prior quality-assured data exist in the load range corresponding to the operating load at the time the missing data period occurred, the owner or operator shall substitute, by means of the automated data acquisition and handling system, for each hour of missing data, the average hourly flow rate or NO_x emission rate or NO_x concentration recorded by a certified monitoring system. The average flow rate (or NO_x emission rate or NO_x concentration) shall be the arithmetic average of all data in the corresponding load range as determined

using the procedure in appendix C to this part.

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

(3) Whenever no prior quality assured flow rate or NO_x emission rate or NO_x concentration data exist for the corresponding load range, or any higher load range, the owner or operator shall, as applicable, substitute, for each hour of missing data, the maximum potential flow rate as specified in section 2.1.4.1 of appendix A to this part or shall substitute the maximum potential NO_x emission rate or the maximum potential NO_x concentration, as specified in section 2.1.2.1 of appendix A to this part.

[64 FR 28601, May 26, 1999]

§ 75.32 Determination of monitor data availability for standard missing data procedures.

(a) Following initial certification (i.e., the date and time at which quality assured data begins to be recorded by the CEMS), upon completion of: the first 720 quality-assured monitor operating hours of an SO₂ pollutant concentration monitor, or a CO₂ pollutant concentration monitor (or O₂ monitor used to determine CO₂ concentration), or an O₂ or CO₂ diluent monitor used to calculate heat input or a moisture monitoring system; or the first 2,160 quality-assured monitor operating hours of a flow monitor or a NO_x-diluent monitoring system or a NO_x concentration monitoring system, the owner or operator shall calculate and record, by means of the automated data acquisition and handling system, the percent monitor data availability for the SO₂ pollutant concentration monitor, the CO₂ pollutant concentration monitor, the O₂ or CO₂ diluent monitor used to calculate heat input, the moisture monitoring system, the flow monitor, the NO_x-diluent monitoring system and the NO_x concentration monitoring system as follows:

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(1) Prior to completion of 8,760 unit operating hours following initial certification, the owner or operator shall, for the purpose of applying the stand-

ard missing data procedures of § 75.33, use equation 8 to calculate, hourly, percent monitor data availability.

$$\text{Percent monitor data availability} = \frac{\text{Total unit operating hours for which quality-assured data were recorded since certification}}{\text{Total unit operating hours since certification}} \times 100 \quad (\text{Eq. 8})$$

(2) Upon completion of 8,760 unit operating hours following initial certification (or, for a unit with less than 8,760 unit operating hours three years (26,280 clock hours) after initial certification, upon completion of three years (26,280 clock hours) following initial

certification) and thereafter, the owner or operator shall, for the purpose of applying the standard missing data procedures of § 75.33, use equation 9 to calculate, hourly, percent monitor data availability.

$$\text{Percent monitor data availability} = \frac{\text{Total unit operating hours for which quality-assured data were recorded during previous 8,760 unit operating hours}}{8,760} \times 100 \quad (\text{Eq. 9})$$

(3) The owner or operator shall include all unit operating hours, and all monitor operating hours for which quality-assured data were recorded by a certified primary monitor; a certified redundant or non-redundant backup monitor or a reference method for that unit; or by an approved alternative monitoring system under subpart E of this part when calculating percent monitor data availability using equation 8 or 9. No hours from more than three years (26,280 clock hours) earlier shall be used in equation 9. The owner or operator of a unit with an SO₂ monitoring system shall, when SO₂ emissions are determined in accordance with § 75.11(e)(1) or (e)(2), exclude hours in which a unit combusts only gaseous fuel from calculations of percent monitor data availability for SO₂ pollutant concentration monitors, as provided in § 75.30(d).

shall record the percent monitor data availability for the last hour of each missing data period as the monitor availability used to implement the missing data substitution procedures.

[58 FR 3701, Jan. 11, 1993, as amended at 60 FR 26529, 26567, May 17, 1995; 61 FR 59160, Nov. 20, 1996; 64 FR 28602, May 26, 1999]

§ 75.33 Standard missing data procedures for SO₂, NO_x and flow rate.

(a) Following initial certification (i.e., the date and time at which quality assured data begins to be recorded by the CEMS) and upon completion of the first 720 quality-assured monitor operating hours of the SO₂ pollutant concentration monitor or the first 2,160 quality assured monitor operating hours of the flow monitor, NO_x-diluent monitoring system or NO_x concentration monitoring system used to determine NO_x mass emissions, the owner or operator shall provide substitute data required under this subpart according to the procedures in paragraphs (b) and

(b) The monitor data availability need not be calculated during the missing data period. The owner or operator