for recording and reporting emissions. Use of a certified backup monitoring system or backup reference method monitoring system is optional and at the discretion of the owner or operator.

(c) When the certified primary monitor is not operating or out-of-control, then data recorded for an affected unit from a certified backup continuous emission monitor or backup reference method monitoring system are used, as if such data were from the certified primary monitor, to calculate monitor data availability in §75.32, and to provide the quality-assured data used in the missing data procedures in §§75.31 and 75.33, such as the “hour after” value.

(d) The owner or operator shall comply with the applicable provisions of this paragraph during hours in which a unit with an SO2 continuous emission monitoring system combusts only gaseous fuel.

(1) Whenever a unit with an SO2 CEMS combusts only natural gas or pipeline natural gas (as defined in §72.2 of this chapter) and the owner or operator is using the procedures in section 7 of appendix F to this part to determine SO2 mass emissions pursuant to §75.11(e)(1), the owner or operator shall, for purposes of reporting heat input data under §75.57(b)(5), and for the calculation of SO2 mass emissions using Equation F–23 in section 7 of appendix F to this part, substitute data from a flow monitoring system, CO2 diluent monitor or O2 diluent monitor using the missing data substitution procedures in §75.36.

(2) Whenever a unit with an SO2 CEMS combusts gaseous fuel and the owner or operator uses the gas sampling and analysis and fuel flow procedures in appendix D to this part to determine SO2 mass emissions pursuant to §75.11(e)(2), the owner or operator shall substitute for missing total sulfur content, gross calorific value, and fuel flowmeter data using the missing data procedures in appendix D to this part and shall also, for purposes of reporting heat input data under §75.54(b)(5) or §75.57(b)(5), as applicable, substitute for missing data from a flow monitoring system, CO2 diluent monitor, or O2 diluent monitor using the missing data substitution procedures in §75.36.

(3) The owner or operator of a unit with an SO2 monitoring system shall not include hours when the unit combusts only gaseous fuel in the SO2 data availability calculations in §75.32 or in the calculations of substitute SO2 data using the procedures of either §75.31 or §75.33, for hours when SO2 emissions are determined in accordance with §75.11(e)(1) or (e)(2). For the purpose of the missing data and availability procedures for SO2 pollutant concentration monitors in §§75.31 and 75.33 only, all hours during which the unit combusts only gaseous fuel shall be excluded from the definition of “monitor operating hour,” “quality-assured monitor operating hour,” “unit operating hour,” and “unit operating day,” when SO2 emissions are determined in accordance with §75.11(e)(1) or (e)(2).

(4) During all hours in which a unit with an SO2 continuous emission monitoring system combusts only gaseous fuel and the owner or operator uses the SO2 monitoring system to determine SO2 mass emissions pursuant to §75.11(e)(3), the owner or operator shall determine the percent monitor data availability for SO2 in accordance with §75.32 and shall use the standard SO2 missing data procedures of §75.33.


§ 75.31 Initial missing data procedures.

(a) During the first 720 quality-assured monitor operating hours following initial certification of the required SO2, CO2, O2, or moisture monitoring system(s) at a particular unit or stack location (i.e., the date and time at which quality assured data begins to be recorded by CEMS(s) installed at that location), and during the first 2,160 quality assured monitor operating hours following initial certification of the required NOX-diluent, NOX concentration, or flow monitoring system(s) at the unit or stack location, the owner or operator shall provide substitute data required under this subpart according to the procedures in paragraphs (b) and (c) of this section. The owner or operator of a unit shall use these procedures for no longer than three years (26,280 clock hours) following initial certification.
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(b) SO₂, CO₂, or O₂ concentration data, and moisture data. For each hour of missing SO₂ or CO₂ emissions concentration data (including CO₂ data converted from O₂ data using the procedures in appendix F of this part), or missing O₂ or CO₂ diluent concentration data used to calculate heat input, or missing moisture data, the owner or operator shall substitute the maximum potential SO₂ concentration or (unless Equation 19–3, 19–4 or 19–8 in Method 19 in appendix A–7 to part 60 of this chapter is used to determine NOX emission rate) the minimum potential moisture percentage, as specified in section 2.1.2.1 of appendix A to this part.

(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–7 to part 60 of this chapter is used to determine NOX emission rate) the minimum potential moisture percentage, as specified 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–7 to part 60 of this chapter is used to determine NOX emission rate, substitute the average of all of the prior quality-assured hourly flow rates, NOX emission rates, or NOX concentrations in the corresponding load range (or operational bin) as determined using the procedure in appendix C to this part.

(2) This paragraph (c)(2) does not apply to non-load-based units using operational bins. Whenever no prior quality-assured flow or NOX emission rate or NOX 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 NOX emission rate or NOX concentration at the next higher load range for which quality-assured data are available.

(3) Whenever no prior quality-assured flow rate or NOX emission rate or NOX concentration data exist for the corresponding load range, or any higher load range (or for non-load-based units using operational bins), when no prior quality-assured data exist in the corresponding operational bin, 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 the maximum potential NOX emission rate or the maximum potential NOX concentration as specified in section 2.1.2.1 of appendix A to this part.

(c) Volumetric flow and NOX emission rate or NOX concentration data (load ranges or operational bins used). The procedures in this paragraph apply to affected units for which load-based ranges or non-load-based operational bins, as defined, respectively, in sections 2 and 3 of appendix C to this part are used to provide substitute NOX and flow rate data. For each hour of missing volumetric flow rate data, NOX emission rate data, or NOX concentration data used to determine NOX mass emissions:

(1) Whenever prior quality-assured flow rate or NOX emission rate or NOX concentration data exist in the load range (or operational bin) corresponding to the operating load (or operating conditions) at the time of the missing data period, the owner or operator shall substitute, by means of the automated data acquisition and handling system, for each hour of missing data, the arithmetic average of all of the prior quality-assured hourly flow rates, NOX emission rates, or NOX concentrations in the corresponding load range (or operational bin) as determined using the procedure in appendix C to this part.
2.1.2.1 of appendix A to this part. Alternatively, where a unit with add-on NO\textsubscript{X} emission controls can demonstrate that the controls are operating properly during the hour, as provided in §75.34(d), the owner or operator may substitute, as applicable, the maximum controlled NO\textsubscript{X} emission rate (MCR) or the maximum expected NO\textsubscript{X} concentration (MEC).

(d) Non-load-based volumetric flow and NO\textsubscript{X} emission rate or NO\textsubscript{X} concentration data (operational bins not used). The procedures in this paragraph, (d), apply only to affected units that do not produce electrical output (in megawatts) or thermal output (in klb/hr of steam) and for which operational bins are not used. For each hour of missing volumetric flow rate data, NO\textsubscript{X} emission rate data, or NO\textsubscript{X} concentration data used to determine NO\textsubscript{X} mass emissions:

(1) Whenever prior quality-assured data exist at the time of the missing data period, the owner or operator shall substitute, by means of the automated data acquisition and handling system, for each hour of missing data, the arithmetic average of all of the prior quality-assured hourly average flow rates or NO\textsubscript{X} emission rates or NO\textsubscript{X} concentrations.

(2) Whenever no prior quality-assured flow rate, NO\textsubscript{X} emission rate, or NO\textsubscript{X} concentration data exist, 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 the maximum potential NO\textsubscript{X} emission rate or the maximum potential NO\textsubscript{X} concentration as specified in section 2.1.2.1 of appendix A to this part.