Environmental Protection Agency

§ 75.31 Initial missing data procedures.

(a) During the first 720 quality-assured monitor operating hours following initial certification of the required SO₂, CO₂, O₃, Hg concentration, 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.

(b) SO₂, CO₂, or O₃ concentration data, Hg concentration data, and moisture data. For each hour of missing SO₂, Hg, or CO₂ emissions concentration data (including CO₂ data converted from O₃ data using the procedures in appendix F of this part), or missing O₃ 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 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 average of the hourly SO₂, CO₂, Hg, or O₃ 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, Hg, or O₃ 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 O₃ 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 NOₓ emission rate) the minimum potential moisture percentage, or the maximum potential Hg concentration, as specified, respectively, in sections 2.1.1.1, 2.1.3.1, 2.1.3.2, 2.1.5, and 2.1.7 of section 2.1.6 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 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. When non-load-based operational bins are used, if essential operating or parametric data are unavailable for any hour in the missing data period, such
that the operational bin cannot be determined, the owner or operator shall, for that hour, substitute (as applicable) 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.

(2) This paragraph (c)(2) does not apply to non-load-based units using operational bins. Whenever no prior quality-assured flow or NO\textsubscript{X} emission rate or NO\textsubscript{X} concentration data exist for the corresponding load range, the owner or operator shall determine, for each hour of missing data, the average hourly flow rate or the average hourly NO\textsubscript{X} emission rate or NO\textsubscript{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\textsubscript{X} emission rate or NO\textsubscript{X} 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 substitute 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. 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(e), 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 kbtu/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 begin calculating the percent monitor data availability as described in paragraph (a)(1) of this section, and shall, upon completion of the first 2,160 quality-assured monitor operating hours, record, by means of the automated data acquisition and handling system, 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.