to this part or shall 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(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.

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 (or stack) operating 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. Notwithstanding this requirement, if three years (26,280 clock hours) have elapsed since initial certification and fewer than 8,760 unit or stack operating hours have been accumulated, the owner or operator shall begin using a modified version of Equation 9, as described in paragraph (a)(3) of this section.

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

(3) When calculating percent monitor data availability using Equation 8 or 9, 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. No hours from more than three years (26,280 clock hours) earlier shall be used in Equation 9. For a unit that has accumulated fewer than 8,760 unit operating hours in the previous three years (26,280 clock hours), replace the words “during previous 8,760 unit operating hours” in the numerator of Equation 9 with “in the previous three years” and replace “8,760” in the denominator of Equation 9 with “total unit operating hours in the previous three years.” 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).

(b) The monitor data availability shall be calculated for each hour during each missing data period. The owner or operator shall record the percent monitor data availability for each hour of each missing data period to implement the missing data substitution procedures.


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

(a) Following initial certification of the required SO₂, NOₓ, and flow rate 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) at that location) and upon completion of the first 720 quality-assured monitor operating hours (for SO₂) or the first 2,160 quality-assured monitor operating hours (for flow, NOₓ emission rate, or