

## Question 24.9

**Topic:** Comparison of QA Parameters to Defined Ranges

**Question:** For Appendix E, should the QA parameters be compared to defined ranges on an hourly basis and if they are out of spec then should missing data be used? Should this be done on an hourly basis or for every 15 minutes?

**Answer:** Compare the hourly average value of each QA parameter with its specification. For example, section 2.3.3 of Appendix E requires the correlation curve between NO<sub>x</sub> emission rate and heat input rate to be redetermined for a boiler when the excess oxygen level continuously exceeds the level recorded during the previous Appendix E test by more than two percent O<sub>2</sub> for a period of greater than 16 consecutive *unit operating hours*.

Therefore, the determination of whether a particular parameter meets the specification is made on an hourly basis, and if any parameter is out of the acceptable range, missing data substitution for NO<sub>x</sub> emission rate is required for that hour.

**References:** Appendix E, Section 2.3.3

**History:** First published in October 1999 Revised Manual; revised in 2013 Manual