Question 19.15

Topic: Minimum Data Requirements and Data Reduction for RM Backup Test Runs

Question: What is the minimum required number of data points per run for Part 75 RM backup gas monitors, and how are the raw data reduced to hourly averages?

Answer: Each RM backup monitoring run must meet the minimum data capture requirement for continuous monitoring systems in § 75.10(d)(1) (i.e., a minimum of one valid data point (e.g., one-minute average) must be obtained in *each* 15-minute quadrant of each unit operating hour, except when required quality assurance activities are conducted during the hour, in which case, only two valid data points, separated by at least 15-minutes, are required. The calibration error, bias, and drift checks of RM 6C, 7E, and 3A fall within the definition of required quality assurance activities.

The raw data from each run are reduced to hourly averages as follows: For each individual clock hour of the run, calculate the (unadjusted) arithmetic average of all valid data points obtained during that hour. Then, adjust the hourly average for each clock hour of the run for calibration bias, using Equation 7E-5b (or Equation 7E-5a, if applicable) in Method 7E.

References: § 75.20(d)(3); § 75.10(d)(1), Method 7E, Section 12.6

History: First published in March 1995, Update #5; revised in October 2003 Revised Manual; revised in 2013 Manual