Question 19.22

Topic: Data Adjustments for Gas RM Backup Systems

Question: Should the raw hourly average pollutant and diluent concentrations obtained with Part 75 backup RM gas monitors be reported as-recorded, or do the averages first have to be adjusted for calibration bias?

Answer: Each raw hourly average from a backup RM gas monitor must be adjusted for calibration bias, using Equation 7E-5b of Method 7E, before being reported in the Monitor Hourly Value (MHV) data record. The adjustments are made by using the pre-and post-run zero ("low-level") and upscale system responses obtained during the bias checks (for dryextractive systems) or the pre- and post-run zero and upscale system responses during the system calibration error checks (for dilution systems).

For test runs longer than one hour, the *same* pre-and post-run quality assurance data are used to adjust each of the individual hourly average concentrations obtained during the test run.

(Note: If a non-zero low-level calibration gas is used, make the calibration bias adjustments using Equation 7E-5a, rather than Equation 7E-5b.)

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

History: First published in March 1995, Update #5; revised in October 1999 Revised Manual; revised in 2013 Manual