

Question 19.8

Topic: RM Backup Monitor Zero and Calibration Drift Checks

Question: Are zero and calibration drift checks necessary for Part 75 RM backup gas monitors?

Answer: Yes. For dry-extractive systems, the zero ("low-level") and calibration ("upscale") drift (i.e., the absolute difference between pre-run and post-run system bias responses) allowed by RM 6C, 7E, and 3A is 3.0% of the calibration span. For dilution systems, the allowable drift (i.e., the absolute difference between pre-run and post-run system calibration error responses) is also 3.0% of the calibration span. Low-level and upscale drift are calculated using Equation 7E-4 in Method 7E.

Exceeding the drift limit does not invalidate the run. However, for a dry-extractive system, a 3-point analyzer calibration error check and a system bias test must be successfully completed before additional test runs are conducted. For dilution-type systems, a 3-point system calibration error test must be successfully completed before additional test runs are conducted.

References: § 75.20(d)(3); Method 7E, Sections 8.5, 12.5, and 13.3

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