Frequently Asked Questions (FAQs) for PS 9

1. As three level of calibration gases are injected in triplicate during the 7-Day drift test, does the 7-day drift test suffice as the multipoint calibration requirement specified in 10.1?

   After each day of the 7-day drift test you may make adjustments to your CEMS. Section 10.1 requires an initial calibration and subsequent multi-point calibrations on a monthly basis. The final multipoint triplicate injection at each of the concentrations used for the 7-day drift test should be adequate for the initial Multi-point Calibration if it meets the requirements in section 13 of PS 9

2. Is the linear regression curve as specified in 13.2 calculated using the responses at all three levels each day during the 7-day drift test?

   You may use the linear regression results from each of the daily drift checks to determine for that day if the curve meets the requirements in 13.2. The drift check is performed before any changes are made to the instrument response or calibration curve. The linear regression check is not a total 7 day calculation (average of all the 7 day responses for each of the concentrations), but rather a check of the linear regression of the triplicate injections at each concentration on each of the 7 days used for the drift test.

3. How do I determine the sampling time or measurement frequency for PS 9?

   Use Equation 9-3 to determine the time constant (T). The sampling system time constant (T) that you calculate shall be ≤5 minutes or the sampling frequency specified in the applicable regulation, whichever is less.   The analytical system shall be capable of measuring the effluent stream at the frequency specified in the appropriate regulation or permit.