



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
RESEARCH TRIANGLE PARK, NC 27711

MAR 15 2016

OFFICE OF  
AIR QUALITY PLANNING  
AND STANDARDS

Mr. Eric L. Ehlers  
Senior Project Manager  
Mostardi Platt  
888 Industrial Drive  
Elmhurst, Illinois 60128

Dear Mr. Ehlers:

I am writing in response to your letter dated January 27, 2016, in which you request clarification on the use of only one temperature sensor for recording dry gas meter (DGM) temperatures for isokinetic (e.g., Method 5, 40 CFR part 60, Appendix A) type sampling per a previous document posted on the EPA's Emission Measurement Center Website. The current specifications, as shown in Figures 5-1 and 5-3 of Method 5, require the use and recording of two temperature sensor measurements, at the inlet and outlet to the DGM. The calculations in Section 12.0 of Method 5 use the average of those two measurements. The referenced document on, Technical Information Document 19 (TID-19) dated March 5, 1997, states the acceptability of one temperature sensor in lieu of the two temperature sensors as long as the single sensor is located at the DGM outlet connection or within the plenum of the DGM. Prior to publication of TID-19, the EPA conducted in-house evaluation tests using three temperature sensors (with one sensor used as a control) and found that the outlet temperature sensor provide the most representative measurement of DGM temperature.

For the purposes of clarification of the applicability and use of TID-19, we are granting approval of an alternative test method for the use of a single temperature sensor in lieu of two temperature sensors in determining the average DGM temperature. The single temperature DGM sensor must be located at the immediate outlet of the DGM or the plenum of the DGM. The single temperature sensor must still meet all applicable calibration and quality assurance/quality control requirements.

It is reasonable that this alternative test method approval be broadly applicable to the conduct of Method 5 and all methods that refer to Method 5 DGM requirements. For this reason, we will post this letter on our website at <http://www.epa.gov/ttn/emc/approalt.html> for use by other interested parties. For parties using this alternative test method, this letter must be included in the test plans and test reports.

If you should have any questions or require further assistance, please contact Jason DeWees of my staff at (919)541-9724 or [dewees.jason@epa.gov](mailto:dewees.jason@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read 'Steffan M. Johnson', with a long horizontal flourish extending to the right.

Steffan M. Johnson, Leader  
Measurement Technology Group