
40 C.F.R. § 1065.355

H2O and CO2 interference verification for CO NDIR analyzers.

- (a) *Scope and frequency.* If you measure CO using an NDIR analyzer, verify the amount of H₂O and CO₂ interference after initial analyzer installation and after major maintenance.
- (b) *Measurement principles.* H₂O and CO₂ can positively interfere with an NDIR analyzer by causing a response similar to CO. If the NDIR analyzer uses compensation algorithms that utilize measurements of other gases to meet this interference verification, simultaneously conduct these other measurements to test the compensation algorithms during the analyzer interference verification.
- (c) *System requirements.* A CO NDIR analyzer must have combined H₂O and CO₂ interference that is within ± 2 % of the flow-weighted mean concentration of CO expected at the standard, though we strongly recommend a lower interference that is within ± 1 %.
- (d) *Procedure.* Perform the interference verification as follows:
- (1) Start, operate, zero, and span the CO NDIR analyzer as you would before an emission test. If the sample is passed through a dryer during emission testing, you may run this verification test with the dryer if it meets the requirements of § 1065.342. Operate the dryer at the same conditions as you will for an emission test. You may also run this verification test without the sample dryer.

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