
40 C.F.R. § 1065.935

Emission test sequence for field testing.

(a) Time the start of field testing as follows:

- (1) If the standard-setting part requires only hot-stabilized emission measurements, operate the engine in-use until the engine coolant, block, or head absolute temperature is within $\pm 10\%$ of its mean value for the previous 2 min or until an engine thermostat controls engine temperature with coolant or air flow.
- (2) If the standard-setting part requires hot-start emission measurements, shut down the engine after at least 2 min at the temperature tolerance specified in paragraph (a)(1) of this section. Start the field test within 20 min of engine shutdown.
- (3) If the standard-setting part requires cold-start emission measurements, proceed to the steps specified in paragraph (b) of this section.

(b) Take the following steps before emission sampling begins:

- (1) For batch sampling, connect clean storage media, such as evacuated bags or tare-weighted PM sample media.
- (2) Operate the PEMS according to the instrument manufacturer's instructions and using good engineering judgment.
- (3) Operate PEMS heaters, dilution systems, sample pumps, cooling fans, and the data-collection system.
- (4) Pre-heat or pre-cool PEMS heat exchangers in the sampling system to within their tolerances for operating temperatures.
- (5) Allow all other PEMS components such as sample lines, filters, and pumps to stabilize at operating temperature.
- (6) Verify that no significant vacuum-side leak exists in the PEMS, as described in § 1065.345.
- (7) Adjust PEMS flow rates to desired levels, using bypass flow if applicable.
- (8) Zero and span all PEMS gas analyzers using NIST-traceable gases that meet the specifications of § 1065.750.

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