

40 C.F.R. § 1065.303

Summary of required calibration and verifications.

The following table summarizes the required and recommended calibrations and verifications described in this subpart and indicates when these have to be performed:

Table 1 of § 1065.303—Summary of Required Calibration and Verifications

Type of calibration or verification	Minimum frequency a
§ 1065.305: Accuracy, repeatability and noise	<i>Accuracy:</i> Not required, but recommended for initial installation. Repeatability: Not required, but recommended for initial installation.
	<i>Noise:</i> Not required, but recommended for initial installation.
§ 1065.307: Linearity verification	
	<i>Speed:</i> Upon initial installation, within 370 days before testing and after major maintenance.
	<i>Torque:</i> Upon initial installation, within 370 days before testing and after major maintenance.
	<i>Electrical power, current, and voltage:</i> Upon initial installation, within 370 days before testing and after major maintenance.b
	<i>Fuel mass flow rate:</i> Upon initial installation, within 370 days before testing, and after major maintenance.
	<i>Fuel mass scale:</i> Upon initial installation, within 370 days before testing, and after major maintenance.
	<i>DEF mass flow rate:</i> Upon initial installation, within 370 days before testing, and after major maintenance.c
	<i>DEF mass scale:</i> Upon initial installation, within 370 days before testing, and after major maintenance.
	Intake-air, dilution air, diluted exhaust, and batch sampler flow rates: Upon initial installation, within 370 days before testing and after major maintenance.d
	<i>Raw exhaust flow rate:</i> Upon initial installation, within 185 days before testing and after major maintenance.d

Copyright © 2024 by Society of Corporate Compliance and Ethics (SCCE) & Health Care Compliance Association (HCCA). No claim to original US Government works. All rights reserved. Usage is governed under this website's <u>Terms of Use</u>.

	<i>Gas dividers:</i> Upon initial installation, within 370 days before testing, and after major maintenance.
	<i>Gas analyzers (unless otherwise noted):</i> Upon initial installation, within 35 days before testing and after major maintenance.
	<i>FTIR and photoacoustic analyzers</i> :Upon initial installation, within 370 days before testing and after major maintenance.
	GC-ECD: Upon initial installation and after major maintenance.
	<i>PM balance:</i> Upon initial installation, within 370 days before testing and after major maintenance.
	<i>Pressure, temperature, and dewpoint</i> :Upon initial installation, within 370 days before testing and after major maintenance.
§ 1065.308: Continuous gas analyzer system response and updating-recording verification—for gas analyzers not continuously compensated for other gas species	Upon initial installation or after system modification that would affect response.
§ 1065.309: Continuous gas analyzer system-response and updating-recording verification—for gas analyzers continuously compensated for other gas species	Upon initial installation or after system modification that would affect response.
§ 1065.310: Torque	Upon initial installation and after major maintenance.
§ 1065.315: Pressure, temperature, dewpoint	Upon initial installation and after major maintenance.
§ 1065.320: Fuel flow	Upon initial installation and after major maintenance.
§ 1065.325: Intake flow	Upon initial installation and after major maintenance.
§ 1065.330: Exhaust flow	Upon initial installation and after major maintenance.
§ 1065.340: Diluted exhaust flow (CVS)	Upon initial installation and after major maintenance.
§ 1065.341: CVS and PFD flow verification (propane check)	Upon initial installation, within 35 days before testing, and after major maintenance.e
§ 1065.342 Sample dryer verification	For thermal chillers: Upon installation and after major maintenance. For osmotic membranes; upon installation, within 35 days of testing, and after major maintenance.
§ 1065.345: Vacuum leak	For laboratory testing: Upon initial installation of the sampling system, within 8 hours before the start of the first test interval of each duty-cycle sequence, and after maintenance such as pre-filter changes.
	For field testing: After each installation of the sampling system on the vehicle, prior to the start of the field test, and after maintenance such as pre-filter changes.

Copyright © 2024 by Society of Corporate Compliance and Ethics (SCCE) & Health Care Compliance Association (HCCA). No claim to original US Government works. All rights reserved. Usage is governed under this website's <u>Terms of Use</u>.

§ 1065.350: CO2 NDIR H2O interference	Upon initial installation and after major maintenance.
§ 1065.355: CO NDIR CO2 and H2O interference	Upon initial installation and after major maintenance.
§ 1065.360: FID calibration THC FID optimization, and THC FID verification	Calibrate all FID analyzers: upon initial installation and after major maintenance.
	Optimize and determine CH4 response for THC FID analyzers: upon initial installation and after major maintenance.
	Verify CH4 response for THC FID analyzers: upon initial installation, within 185 days before testing, and after major maintenance.
	Verify C2H6 response for THC FID analyzers if used for NMNEHC determination: upon initial installation, within 185 days before testing, and after major maintenance.
§ 1065.362: Raw exhaust FID 02 interference	For all FID analyzers: upon initial installation, and after major maintenance.
	For THC FID analyzers: upon initial installation, after major maintenance, and after FID optimization according to § 1065.360.
§ 1065.365: Nonmethane cutter penetration	Upon initial installation, within 185 days before testing, and after major maintenance.
§ 1065.366: Interference verification for FTIR analyzers	Upon initial installation and after major maintenance.
§ 1065.369: H2O, CO, and CO2 interference verification for ethanol photoacoustic analyzers	Upon initial installation and after major maintenance.
§ 1065.370: CLD CO2 and H2O quench	Upon initial installation and after major maintenance.
§ 1065.372: NDUV HC and H2O interference	Upon initial installation and after major maintenance.
§ 1065.375: N2O analyzer interference	Upon initial installation and after major maintenance.
§ 1065.376: Chiller NO2 penetration	Upon initial installation and after major maintenance.
§ 1065.378: NO2-to-NO converter conversion	Upon initial installation, within 35 days before testing, and after major maintenance.
§ 1065.390: PM balance and weighing	Independent verification: Upon initial installation, within 370 days before testing, and after major maintenance.
	Zero, span, and reference sample verifications: Within 12 hours of weighing, and after major maintenance.
§ 1065.395: Inertial PM balance and weighing	Independent verification: Upon initial installation, within 370 days before testing, and after major maintenance.
	Other verifications: Upon initial installation and after major maintenance.

This document is only available to subscribers. Please log in or purchase access.

Copyright © 2024 by Society of Corporate Compliance and Ethics (SCCE) & Health Care Compliance Association (HCCA). No claim to original US Government works. All rights reserved. Usage is governed under this website's <u>Terms of Use</u>.

Purchase Login

Copyright © 2024 by Society of Corporate Compliance and Ethics (SCCE) & Health Care Compliance Association (HCCA). No claim to original US Government works. All rights reserved. Usage is governed under this website's <u>Terms of Use</u>.