
40 C.F.R. § 1033.501

General provisions.

- (a) Except as specified in this subpart, use the equipment and procedures for compression-ignition engines in 40 CFR part 1065 to determine whether your locomotives meet the duty-cycle emission standards in § 1033.101. Use the applicable duty cycles specified in this subpart. Measure emissions of all the pollutants we regulate in § 1033.101 plus CO₂. Measure N₂O, and CH₄ as described in § 1033.235. The general test procedure is the procedure specified in 40 CFR part 1065 for steady-state discrete-mode cycles. However, if you use the optional ramped modal cycle in § 1033.520, follow the procedures for ramped modal testing in 40 CFR part 1065. The following exceptions from the 1065 procedures apply:
- (1) You must average power and emissions over the sampling periods specified in this subpart for both discrete-mode testing and ramped modal testing.
 - (2) The test cycle is considered to be steady-state with respect to operator demand rather than engine speed and load.
 - (3) The following provisions apply for engine mapping, duty-cycle generation, and cycle validation to account for the fact that locomotive operation and locomotive duty cycles are based on operator demand from locomotive notch settings, not on target values for engine speed and load:
 - (i) The provisions related to engine mapping, duty-cycle generation, and cycle validation in 40 CFR 1065.510, 1065.512, and 1065.514 do not apply for testing complete locomotives.

This document is only available to subscribers. Please [log in](#) or [purchase access](#).

[Purchase Login](#)