
40 C.F.R. § 1048.310

How must I select engines for production-line testing?

- (a) Use test results from two engines each quarter to calculate the required sample size for the model year for each engine family.
- (b) Early in each calendar quarter, randomly select and test two engines from the end of the assembly line for each engine family.
- (c) Calculate the required sample size for each engine family. Separately calculate this figure for HC + NO_x and CO. The required sample size is the greater of these calculated values. Use the following equation:

$$N = \left[\frac{(t_{95} \cdot \sigma)}{(x - \text{STD})} \right]^2 + 1$$

Where:

N = Required sample size for the model year. t_{95} = 95% confidence coefficient, which depends on the number of tests completed, n, as specified in the table in paragraph (c)(1) of this section. It defines 95% confidence intervals for a one-tail distribution. σ = Test sample standard deviation (see paragraph (c)(2) of this section). x = Mean of emission test results of the sample. STD = Emission standard.

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