

## 40 C.F.R. § 1036.230

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### Selecting engine families.

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- (a) For purposes of certification to the standards of this part, divide your product line into families of engines that are expected to have similar characteristics for criteria emissions throughout the useful life as described in this section. Your engine family is limited to a single model year.
- (b) Group engines in the same engine family if they are the same in all the following design aspects:
- (1) The combustion cycle and fuel. See paragraph (g) of this section for special provisions that apply for dual-fuel and flexible-fuel engines.
  - (2) The cooling system (water-cooled vs. air-cooled).
  - (3) Method of air aspiration, including the location of intake and exhaust valves or ports and the method of intake-air cooling, if applicable.
  - (4) The arrangement and composition of catalytic converters and other aftertreatment devices.
  - (5) Cylinder arrangement (such as in-line vs. vee configurations) and bore center-to-center dimensions.
  - (6) Method of control for engine operation other than governing (*i.e.*, mechanical or electronic).
  - (7) The numerical level of the applicable criteria emission standards. For example, an engine family may not include engines certified to different family emission limits for criteria emission standards, though you may change family emission limits without recertifying as specified in § 1036.225(f).

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