manufacturers that the engine must not be installed in equipment involving intermediate-speed operation. Also, if your wintertime engines are not certified to the otherwise applicable HC+NO\textsubscript{X} standards, tell equipment manufacturers that the engines must be installed in equipment that is used only in wintertime.

(6) Describe any other instructions to make sure the installed engine will operate according to design specifications in your application for certification. For example, this may include specified limits for catalyst systems, such as exhaust backpressure, catalyst location, and temperature profiles during engine operation.

(7) State: ‘‘If you install the engine in a way that makes the engine’s emission control information label hard to read during normal engine maintenance, you must place a duplicate label on the equipment, as described in 40 CFR 1068.105.’’

(c) You do not need installation instructions for engines you install in your own equipment.

(d) Provide instructions in writing or in an equivalent format. For example, you may post instructions on a publicly available Web site for downloading or printing. If you do not provide the instructions in writing, explain in your application for certification how you will ensure that each installer is informed of the installation requirements.

§ 1054.135 How must I label and identify the engines I produce?

The provisions of this section apply to engine manufacturers.

(a) Assign each engine a unique identification number and permanently affix, engrave, or stamp it on the engine in a legible way.

(b) At the time of manufacture, affix a permanent and legible label identifying each engine. The label must be—

(1) Attached in one piece so it is not removable without being destroyed or defaced.

(2) Secured to a part of the engine needed for normal operation and not normally requiring replacement.

(3) Durable and readable for the engine’s entire life.

(4) Written in English.

(c) The label must conform to the following specifications without exception:

(1) Include the heading ‘‘EMISSION CONTROL INFORMATION’’.

(2) Include your full corporate name and trademark. You may identify another company and use its trademark instead of yours if you comply with the provisions of §1054.640.

(3) Include EPA’s standardized designation for the emission family (and subfamily, where applicable).

(4) State the following based on the useful life requirements in §1054.107: ‘‘EMISSION COMPLIANCE PERIOD = [identify applicable useful life period] HOURS’’. In addition to specifying the hours, you may optionally add the descriptive terms specified in §1054.107(a) to characterize the useful life. You may use the term Heavy Commercial for nonhandheld engines if you establish a longer useful life under §1054.107(a)(2).

(5) State the engine’s displacement (in cubic centimeters); however, you may omit this from the label if all the engines in the emission family have the same per-cylinder displacement and total displacement.

(6) State the date of manufacture [DAY (optional), MONTH, and YEAR]; however, you may omit this from the label if you stamp, engrave, or otherwise permanently identify it elsewhere on the engine, in which case you must also describe in your application for certification where you will identify the date on the engine.

(7) Identify the emission control system. Use terms and abbreviations as described in 40 CFR 1068.45. You may omit this information from the label if there is not enough room for it and you put it in the owners manual instead.

(8) Include one of the following statements:

(i) If you certify the engine only with respect to exhaust emissions, state—

‘‘THIS ENGINE MEETS U.S. EPA EXH REGS FOR [MODEL YEAR].’’

(ii) If you certify the engine with respect to exhaust emissions and the equipment with respect to evaporative emissions, state—
“THIS ENGINE MEETS U.S. EPA EXH/EVP REGS FOR [MODEL YEAR].”

(d) The following information may be included on the label or in the owners manual:

(1) List specifications and adjustments for engine tuneups.
(2) Identify the altitude at which an altitude kit should be installed if you specify an altitude kit under §1054.115(c).
(3) Identify the fuel type and any requirements for fuel and lubricants.
(4) If your nonhandheld engines are certified for use only at rated speed or only at intermediate speed, add the statement: “CERTIFIED FOR [rated-speed or intermediate-speed] APPLICATIONS ONLY” or “CERTIFIED FOR [identify nominal engine speed or range of speeds for testing] OPERATION ONLY”.

(e) You may add information to the emission control information label as follows:

(1) You may identify other emission standards that the engine meets or does not meet (such as California standards). You may include this information by adding it to the statement we specify or by including a separate statement.
(2) You may add other information to ensure that the engine will be properly maintained and used.
(3) You may add appropriate features to prevent counterfeit labels. For example, you may include the engine’s unique identification number on the label.

(f) Except for the labeling requirements specified in paragraph (c) of this section, you may ask us to approve modified labeling requirements in this part 1054 if you show that it is necessary or appropriate. We will approve your request if your alternate label is consistent with the requirements of this part.

(g) If others install your engine in their equipment in a way that obscures the engine label such that the label cannot be read during normal maintenance, we require them to add a duplicate label on the equipment (see 40 CFR 1066.105). If equipment manufacturers request it, send them labels that include all the information from the original label and that are clearly identified as duplicate labels. You may omit the date of manufacture from the duplicate label. Keep a written record of each request for five years after it is no longer needed for ongoing production.

(b) Integrated equipment manufacturers certifying their engines and equipment with respect to both exhaust and evaporative emission standards may meet labeling requirements with a single label that has all the required information specified in this section and in 40 CFR 1060.135.

§1054.140 What is my engine’s maximum engine power and displacement?

This section describes how to quantify your engine’s maximum engine power and displacement for the purposes of this part.

(a) An engine configuration’s maximum engine power is the maximum brake power point on the nominal power curve for the engine configuration, as defined in this section. Round the power value to the nearest 0.1 kilowatts for nonhandheld engines and to the nearest 0.01 kilowatts for handheld engines. The nominal power curve of an engine configuration is the relationship between maximum available engine brake power and engine speed for an engine, using the mapping procedures of 40 CFR part 1065, based on the manufacturer’s design and production specifications for the engine. For handheld engines, we may allow manufacturers to base the nominal power curve on other mapping procedures, consistent with good engineering judgment. This information may also be expressed by a torque curve that relates maximum available engine brake power and engine speed for an engine, using the mapping procedures of 40 CFR part 1065, based on the manufacturer’s design and production specifications for the engine. For handheld engines, we may allow manufacturers to base the nominal power curve on other mapping procedures, consistent with good engineering judgment. This information may also be expressed by a torque curve that relates maximum available engine brake power and engine speed for an engine, using the mapping procedures of 40 CFR part 1065, based on the manufacturer’s design and production specifications for the engine.

(b) An engine configuration’s displacement is the intended swept volume of all the engine’s cylinders. The swept volume of the engine is the product of the internal cross-section area of the cylinders, the stroke length, and the number of cylinders. Calculate the