ask us to determine that a remanufacturing system is not considered available for their vessels because of excessive costs under §1042.850.

(b) We will maintain a list of available remanufacturing systems. A new remanufacturing system is considered to be available 120 days after we first issue a certificate of conformity for it. Where we issue a certificate of conformity based on carryover data for a system that is already considered to be available for the configuration, the 120-day delay does not apply and the new system is considered to be available when we issue the certificate.

(c) For the purpose of paragraph (a)(2) of this section, marginal cost means the difference in costs between remanufacturing the engine using the remanufacturing system and remanufacturing the engine conventionally, divided by the projected amount that PM emissions will be reduced over the engine’s useful life.

(1) Total costs include:
   (i) Incremental hardware costs.
   (ii) Incremental labor costs.
   (iii) Incremental operating costs over one useful life period.
   (iv) Other costs (such as shipping).

(2) Calculate the projected amount that PM emissions will be reduced over the engine’s useful life using the following equation:

\[ \text{PM tons} = \frac{(\text{EF}_{\text{base}} - \text{EF}_{\text{cont}}) \times (\text{PR}) \times (\text{UL}) \times (\text{LF}) \times (10^{-6})}{\text{UL}} \]

Where:
- \( \text{EF}_{\text{base}} \) = deteriorated baseline PM emission rate (g/kW-hr).
- \( \text{EF}_{\text{cont}} \) = deteriorated controlled PM emission rate (g/kW-hr).
- \( \text{PR} \) = maximum engine power for the engine (kW).
- \( \text{UL} \) = useful life (hr).
- \( \text{LF} \) = the load factor that would apply for your engine under §1042.705.

§1042.820 Emission standards and required emission reductions for remanufactured engines.

(a) The requirements of this section apply with respect to emissions as measured according to subpart F of this part. See paragraph (g) of this section for special provisions related to remanufacturing systems certified for both locomotive and marine engines. Remanufactured Tier 2 and earlier engines may be certified under this subpart only if they have NO\textsubscript{X} emissions equivalent to or less than baseline NO\textsubscript{X} levels and PM emissions at least 25.0 percent less than baseline PM emission levels. See §1042.825 for provisions for determining baseline NO\textsubscript{X} and PM emissions. See §1042.835 for provisions related to demonstrating compliance with these requirements.

(b) The NTE and ABT provisions of this part do not apply for remanufactured engines.

(c) The exhaust emission standards in this section apply for engines using the fuel type on which the engines in the engine family are designed to operate. Engines designed to operate using residual fuel must comply with the standards and requirements of this part when operated using residual fuel.

(d) Your engines must meet the exhaust emission standards of this section over their full useful life, as defined in §1042.101(e).

(e) The duty-cycle emission standards in this subpart apply to all testing performed according to the procedures in §1042.505, including certification, production-line, and in-use testing.

(f) Sections 1042.120, 1042.125, 1042.130, 1042.140 apply for remanufactured engines as written. Section 1042.115 applies for remanufactured engines as written, except for the requirement that electronically controlled engines broadcast their speed and output shaft torque.

(g) A remanufacturing system certified for locomotive engines under 40 CFR part 1033 may be deemed to also meet the requirements of this section, as specified in §1042.836.

§1042.825 Baseline determination.

(a) For the purpose of this subpart, the term “baseline emissions” means the average measured emission rate specified by this section. Baseline emissions are specific to a given certificate holder and a given engine configuration.

(b) Select a used engine to be the emission-data engine for the engine family for testing. Using good engineering judgment, select the engine configuration expected to represent the most common configuration in the family.