§ 91.1304 Averaging.

(a) A manufacturer may use averaging across engine families to demonstrate a zero or positive credit balance for a model year. Positive credits to be used in averaging may be obtained from credits generated by another engine family of the same model year, credits banked in previous model years, or credits obtained through trading.

(b) Beginning in model year 2004, credits used to demonstrate a zero or positive credit balance must be used at a rate of 1.1 to 1.

§ 91.1305 Banking.

(a) A manufacturer of a marine SI engine family with an in-use compliance level below the applicable FEL to which the engine family is certified for a given model year may bank positive in-use credits for that model year for use in in-use averaging and trading.

(b) A manufacturer may consider credits banked 30 days after the submission of the report required by §91.1309(a). During the 30 day period EPA will work with the manufacturer to correct any error in calculating banked credits, if necessary.

§ 91.1306 Trading.

(a) A marine engine manufacturer may exchange positive in-use emission credits with other marine engine manufacturers through trading.

\[
\sum_{t=1}^{\text{max useful life}} S(t) \times \text{sales} \times (\text{FEL} - \text{CL}) \times \text{Power} \times AF \times 0.207 \times \mu_{\text{use}}
\]

1.03^{l}

Where:

- \(S(t)\) = cumulative fraction survived at time \(t\);
- \(\mu_{\text{life}}\) = average useful life in years, specific to the power rating and the application as given below.

<table>
<thead>
<tr>
<th>Engine type</th>
<th>(\mu_{\text{life}})</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outboard</td>
<td>41.27 (\times \frac{\text{Power}}{0.746})(^{-0.204})</td>
</tr>
<tr>
<td>Personal</td>
<td>10</td>
</tr>
<tr>
<td>Watercraft</td>
<td></td>
</tr>
</tbody>
</table>

Power is the average power of an engine family in kW (sales weighted). The power of each configuration is the rated output in