

## §91.1303

## 40 CFR Ch. I (7-1-04 Edition)

### §91.1303 General provisions.

(a) The in-use credit program for eligible marine engines is described in this subpart. Participation in this program is voluntary.

(b) A marine SI engine family is eligible to participate in the in-use credit program if it is subject to regulation under subpart B of this part with certain exceptions specified in paragraph (c) of this section.

(c) Marine SI engines may not participate in the in-use averaging, banking, and trading program if they are delivered to a "point of first retail sale" outside of the U.S., as defined in §91.202.

(d) Credits generated and used in the marine engine certification averaging, banking, and trading program pursuant to the provisions of subpart C of this part are not interchangeable with credits generated and used in the marine engine in-use credit program.

(e) An engine family with a compliance level, as determined by in-use testing pursuant to subpart I of this part and paragraph (h) of this section, below the applicable FEL to which the engine family is certified may generate emission credits for averaging, banking, or trading in the in-use credit program.

(f) Positive credits generated in a given model year may be used in that model year and/or in any subsequent model year.

(g) A manufacturer of an engine family with a compliance level exceeding the applicable FEL to which the engine family is certified, may, prior to the date of the report required under paragraph (j) of this section use previously banked credits, purchase credits from another manufacturer, or perform additional testing pursuant to paragraph (i) of this section to address (as calculated elsewhere in this subpart) the associated credit deficit (negative credits or a need for credits).

(h) A manufacturer may carry-over an in-use credit deficit up to and including model year 2003. Beginning with model year 2004, all manufacturers must have a zero or positive credit balance.

(i) A manufacturer must notify EPA of plans to test additional engine families beyond the maximum 25 percent

required in subpart I of this part for the in-use testing program. Such notice must be submitted 30 days prior to initiation of service accumulation. EPA may approve, with adequate justification, the use of an existing fleet for additional testing. If the additional testing discovers an engine family to be in noncompliance with the applicable FEL, the testing must be treated as if it were a failure of the normal in-use testing requirement of an engine family.

(j) Manufacturers must demonstrate a zero or positive credit balance under the in-use credit program for a particular model year within 90 days of the end of the in-use testing of that model year's engine families, or at the same time as the final certification AB&T report (required under §91.210), whichever is later.

### §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

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credits with other marine engine manufacturers through trading.

(b) In-use credits for trading can be obtained from credits banked for model years prior to the model year of the engine family requiring in-use credits.

(c) Traded in-use credits can be used for averaging, banking, or further trading transactions.

(d) Unless otherwise approved by EPA, a manufacturer that generates positive in-use credits must wait 30 days after it has both completed in-use testing for the model year for which the credits were generated and submitted the report required by §91.1309(a) before it may transfer credits to another manufacturer or broker.

(e) In the event of a negative credit balance resulting from a transaction,

both the buyer and the seller are liable, except in cases involving fraud. Engine families participating in a negative trade may be subject to recall under subpart I of this part.

**§91.1307 Credit calculation.**

For each participating engine family, emission credits (positive or negative) are to be calculated according to the following equation and rounded, in accordance with ASTM E29-93a, to the nearest gram. ASTM E29-93a has been incorporated by reference. See §91.6. Consistent units are to be used throughout the equation. The following equation is used to determine the credit status for an engine family whether generating positive or negative in-use emission credits:

$$\sum_{t=1}^{\text{max useful life}} \frac{S(t) \times \text{sales} \times (\text{FEL} - \text{CL}) \times \text{Power} \times \text{AF} \times 0.207 \times \mu_{\text{use}}}{1.03^t}$$

Where:

S(t)=cumulative fraction survived at time t;  
 μ<sub>life</sub>=average useful life in years, specific to the power rating and the application as given below.

μ<sub>use</sub> = mean use in hours per year. For outboard engines, μ<sub>use</sub>=34.8 hrs /yr. For personal watercraft, μ<sub>use</sub>=77.3 hrs/yr;  
 AF = adjustment factor for the number of tests conducted

Engine type	(μ <sub>life</sub> )
Outboard	41.27 × ( $\frac{\text{Power}}{0.746}$ ) <sup>-0.204</sup>
Personal Watercraft	10

No. eng. tested .....	2*, 4	6	8	10
Adjustment factor .....	.5	.75	.9	1

\* Small volume manufacturer

**§91.1308 Maintenance of records.**

(a) Any manufacturer that is participating in the in-use credit program set forth in this subpart shall establish, maintain, and retain the records required by §91.209 with respect to its participation in the in-use credit program.

(b) EPA may void *ab initio* a certificate of conformity for an engine family for which the manufacturer fails to retain the records required under this section or to provide such information to the Administrator upon request.

**§91.1309 Reporting requirements.**

(a) Any manufacturer who participates in the in-use credit program is required to submit an end of the model year in-use testing report either within

Power = the average power of an engine family in kW (sales weighted). The power of each configuration is the rated output in kilowatts as determined by SAE J1228. This procedure has been incorporated by reference. See §91.6.

t = time in model years

max useful life = maximum useful life specific to the power rating and the application; max useful life = 2μ<sub>life</sub>

sales = the number of eligible sales tracked to the point of first retail sale in the U.S. for the given engine family during the model year.

FEL = the family emission limit for the engine family in grams per kilowatt hour.

CL = compliance level of the in-use testing in g/kW-hr.