Environmental Protection Agency

For all fuel, the units conversion factor is 1 ton/2000 lbs.

APPENDIX D TO PART 72—CALCULATION OF POTENTIAL ELECTRIC OUTPUT CAPACITY

The potential electrical output capacity is calculated from the maximum design heat input from the boiler by the following equation:

\[
\frac{\text{max. design heat input}}{3} \times \frac{1 \text{ kw-hr}}{3413 \text{ Btu}} \times \frac{1 \text{ MWe}}{1000 \text{ kw}}
\]

For example:
(1) Assume a boiler with a maximum design heat input capacity of 340 million Btu/hr.
(2) One-third of the maximum design heat input capacity is 113.3 mmBtu/hr. The one-third factor relates to the thermodynamic efficiency of the boiler.
(3) To express this in MWe, the standards conversion of 3413 Btu to 1 kw-hr is used:

\[
\frac{113.3 \times 10^6 \text{ Btu/hr}}{3413 \text{ Btu}} = 33.2 \text{ MWe}
\]

[58 FR 15649, Mar. 23, 1993]

PART 73—SULFUR DIOXIDE ALLOWANCE SYSTEM

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