

MERRIMACK STATION

AR# 1031

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Mercury Removed from Scrubber:

$$\begin{array}{r} 189 \text{ lbs/year} - 3\% \text{ if scrubber is } 97\% \text{ effective} \\ - 6 \\ \hline 183 \end{array}$$

$$\frac{183 \text{ lbs}}{\text{year}} \times \frac{\text{year}}{365 \text{ days}} \times \frac{453592 \text{ mg}}{\text{pound}} = 227,417 \text{ mg/day}$$

Mercury in FGD wastewater after primary treatment:

$$\frac{19 \text{ ng}}{\text{L}} \times \frac{\text{L}}{0.264 \text{ gal}} \times \frac{70,000 \text{ gallons}}{\text{day}} = 5,037,879 \text{ ng/day}$$

$$\frac{5 \times 10^6 \text{ ng}}{227 \times 10^9 \text{ ng}} \times 100 = 0.002\%$$