Name:	Grade:
	FSC 401
Read the following statements <u>carefully</u> and indic	Quiz #3
Note: For partial credit (if an answer is incorrect), relevant calculations. If necessary, make the mos (25%) If the NO _x emissions from a 40-mp.	summarize the procedure you used to obtain the answer and show the t convenient (and hopefully reasonable) assumptions. g diesel-powered car are 20 grams per gallon and the EPA limit is 0.07
12,000 BTU/lb) and the EPA limit is 13 ng/J(th), the	ssions of a power plant are 50% of the ash 'content' of coal (8% ash, the efficiency of the PM removal device must exceed 98%. Solution of the PM removal device must exceed
13,000 BTU/kg. (1 MeV=1.52e-16 BTU.)	energy than released in the compustion of coal whose heating value is
See Illustr. 13-1 (p233): (-0.10)	10) + (0.75) = (.(84 MeV + 235 mucleurs Inucleurs Nucleur + 235 mucleurs (atom
(25%) If a nuclear reactor, whose lifetime with a capacity utilization factor of 98%, it will ge	$\frac{10}{10} + (0.75) = (.(84 \frac{916V}{\text{Nucleon}} \times 235 \frac{\text{nucleus}}{\text{Nucleus}} \frac{1}{\text{Nucleus}} \times \frac{1}{N$
And Illustr. 13-3: < 50 ht 1	ge of the fuel mass will be converted to energy?) -135 / flant $\Rightarrow > 30$ mt of 40_2 , etc. $\sim 8 \times 10^6$

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- But this is only 3/ of the material in the Wactor, which is essentially not converted to energy, first made psu.edu (last modified 11/05/2015) advisative - high-level waste!