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| PHSC 1014 | Activity Sheet  Nuclear Capstone |

Name:

Calculator website: http://esa21.kennesaw.edu/activities/nukecapstone/nukecapstonecalculator.htm

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| Appliance | Power (W) | Avg. Use (Hrs./week) |
| Average light bulbs |  |  |
| Washing machine |  | Your Emissions  U.S. France  CO2 \_\_\_\_\_ lbs \_\_\_\_\_lbs  SO2 \_\_\_\_\_ lbs \_\_\_\_\_lbs  NOx \_\_\_\_\_ lbs \_\_\_\_\_lbs |
| Dryer |  |  |
| Dishwasher |  |  |
| Stove |  |  |
| Air conditioner |  |  |
| Heater |  |  |
| Refrigerator |  |  |
| Hot water heater |  |  |
| Television |  |  |
| Microwave |  |  |
| Stereo |  |  |
| Computer |  |  |
| Miscellaneous |  |  |

1. How large is the difference between your emissions in the U.S. and what they would be if we had the same energy profile as France?

2. One way to minimize your emissions is to use high efficiency appliances that use less energy. A list

of these appliances can be found at the Energy Star website (<http://www.energystar.gov/>). Use this

website to “replace” the three largest energy users in your home with more efficient appliances and

recalculate your emissions.

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| Appliance | Old Power Rating | New Power Rating |
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How does your new level of emissions compare to what your original emissions would have been if

we had an energy profile similar to France? Are you willing to spend the money to purchase such

appliances?