Supplementary Material

The following supporting information may be found online in the Supplementary Material associated to this article:

1. As a consistency check to test that our high-precision EGS4 spectra were equivalent to those calculated in 1997, we fitted one to the other to extract the energy shift. The results for all the spectra are shown in Figure S-1 and Figure S-2;

2. A sample EGSnrc input file `dosrz-10al10.egsinp` is provided for the case of 10 MeV electrons incident on an aluminum absorber with a mass thickness of 0.819 gm/cm^2, for anyone interested in reproducing the results with EGSnrc or investigating this topic further.

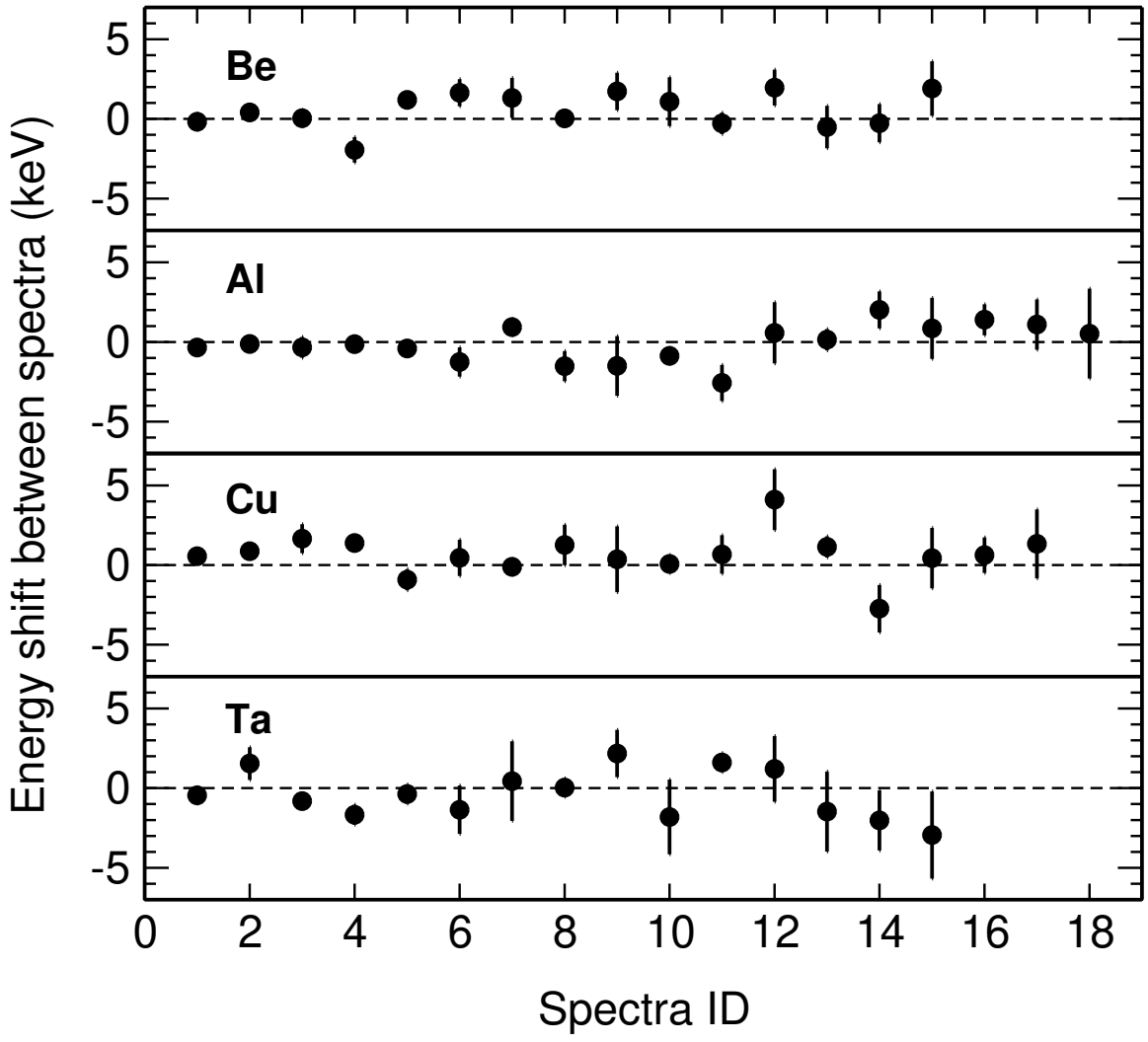

FIGURE S-1 Energy shifts between the original spectra used for extracting the stopping power data reported in PIRS-0626 and high-precision spectra calculated using EGS4. These results are for the elemental materials Be, Al, Cu and Ta. The abscissa is simply a number to identify each spectrum, but the low and high energy spectra are to the left and right, respectively.

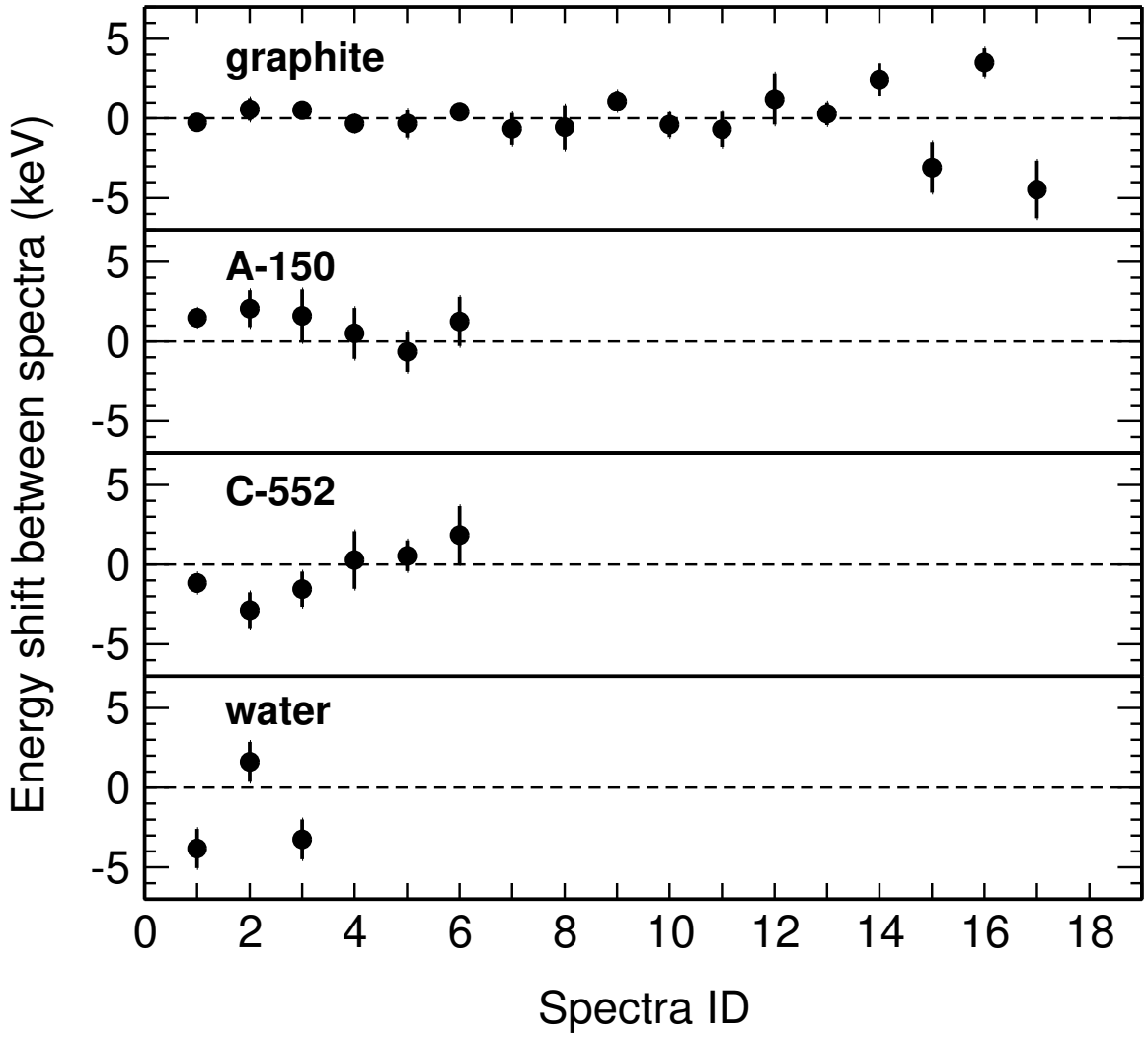

FIGURE S-2 Same as Figure S-1, but for materials that are often used for dosimetric purposes. Note that the graphite stopping power was calculated using the crystalline density to evaluate the density effect correction.