**An Analysis on Mark-18A Target Irradiation History and Inventory of Plutonium and Heavy Curium**

Benjamin Austin1, W. Cade Brinkley1, Jennifer Jeffcoat1,2, Jacob Weinberg1, Benjamin Beeler1,3, Tara Smith4, Tracy Stover4

1North Carolina State University; 2South Carolina State University; 3Idaho National Laboratory; 4Savannah River National Laboratory