# Release notes for ENDF/B Development dec-063_Eu_165 evaluation

October 14, 2016

- `fizcon` Errors:

  1. All probability distributions should be normalized to 1, this one isn't.
     *MAT=2186, MF= 8, MT=457 (1): Bad norm (b)*

     ```
     ERROR(S) FOUND IN MAT=2186, MF= 8, MT=457
        NORMALIZATION CHECK INTEGRAL= 1.00139E+00 BEFORE
     ```

  2. Energies released in decay not adding up!
     *MAT=2186, MF= 8, MT=457 (2): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=2186, MF= 8, MT=457
        TOTAL ENERGY RELEASE SUMUP FAILURE
            WHOLE= 5.78673E+06  SUM= 4.25439E+06
     ```

  3. Energies released in decay not adding up!
     *MAT=2186, MF= 8, MT=457 (3): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=2186, MF= 8, MT=457
        GAMMA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 3.18976E+06  SUM= 3.21273E+06
     ```

  4. Energies released in decay not adding up!
     *MAT=2186, MF= 8, MT=457 (4): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=2186, MF= 8, MT=457
        BETA MULTIPLICITY SUMUP FAILURE
            WHOLE= 1.00000E+00  SUM= 1.00139E+00
     ```

  5. Energies released in decay not adding up!
     *MAT=2186, MF= 8, MT=457 (5): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=2186, MF= 8, MT=457
        BETA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 1.03636E+06  SUM= 1.04137E+06
     ```

  6. Energies released in decay not adding up!
     *MAT=2186, MF= 8, MT=457 (6): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=2186, MF= 8, MT=457
        NEUTRON AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 2.74807E+02  SUM= 2.90348E+02
     ```