# Release notes for ENDF/B Development dec-060_Nd_161 evaluation

October 14, 2016

- `fizcon` Errors:

  1. All probability distributions should be normalized to 1, this one isn't.
     *MAT=2048, MF= 8, MT=457 (1): Bad norm (b)*

     ```
     ERROR(S) FOUND IN MAT=2048, MF= 8, MT=457
        NORMALIZATION CHECK INTEGRAL= 1.00798E+00 BEFORE
     ```

  2. Energies released in decay not adding up!
     *MAT=2048, MF= 8, MT=457 (2): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=2048, MF= 8, MT=457
        TOTAL ENERGY RELEASE SUMUP FAILURE
            WHOLE= 7.43086E+06  SUM= 4.88688E+06
     ```

  3. Energies released in decay not adding up!
     *MAT=2048, MF= 8, MT=457 (3): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=2048, MF= 8, MT=457
        GAMMA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 2.91913E+06  SUM= 2.94241E+06
     ```

  4. Energies released in decay not adding up!
     *MAT=2048, MF= 8, MT=457 (4): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=2048, MF= 8, MT=457
        BETA MULTIPLICITY SUMUP FAILURE
            WHOLE= 1.00000E+00  SUM= 1.00042E+00
     ```

  5. Energies released in decay not adding up!
     *MAT=2048, MF= 8, MT=457 (5): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=2048, MF= 8, MT=457
        BETA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 1.93793E+06  SUM= 1.94293E+06
     ```

  6. Energies released in decay not adding up!
     *MAT=2048, MF= 8, MT=457 (6): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=2048, MF= 8, MT=457
        NEUTRON MULTIPLICITY SUMUP FAILURE
            WHOLE= 7.43570E-03  SUM= 7.49500E-03
     ```

  7. Energies released in decay not adding up!
     *MAT=2048, MF= 8, MT=457 (7): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=2048, MF= 8, MT=457
        NEUTRON AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 1.49291E+03  SUM= 1.53996E+03
     ```