Release notes for ENDF/B Development dec-035_Br_097 evaluation

October 14, 2016

- `fizcon` Errors:

  1. Parity set to illegal value
     MAT= 861, MF= 8, MT=457 (1): Bad parity

     ```
     ERROR(S) FOUND IN MAT= 861, MF= 8, MT=457
        PARITY= 0.00000E+00 NOT +1.0 OR -1.0
     ```

  2. Generic error message
     MAT= 861, MF= 8, MT=457 (2): Error

     ```
     ERROR(S) FOUND IN MAT= 861, MF= 8, MT=457
        E(MAXIMUM) > Q  E= 1.29100E+07  Q= 1.04970E+07
     ```

  3. Energies released in decay not adding up!
     MAT= 861, MF= 8, MT=457 (3): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT= 861, MF= 8, MT=457
        TOTAL ENERGY RELEASE SUMUP FAILURE
            WHOLE= 1.02531E+07  SUM= 6.18147E+06
     ```

  4. Energies released in decay not adding up!
     MAT= 861, MF= 8, MT=457 (4): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT= 861, MF= 8, MT=457
        GAMMA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 1.55017E+06  SUM= 1.56767E+06
     ```

  5. Energies released in decay not adding up!
     MAT= 861, MF= 8, MT=457 (5): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT= 861, MF= 8, MT=457
        BETA MULTIPLICITY SUMUP FAILURE
            WHOLE= 1.09698E+00  SUM= 1.00009E+00
     ```

  6. Energies released in decay not adding up!
     MAT= 861, MF= 8, MT=457 (6): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT= 861, MF= 8, MT=457
        BETA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 3.54592E+06  SUM= 3.55092E+06
     ```

  7. Energies released in decay not adding up!
     MAT= 861, MF= 8, MT=457 (7): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT= 861, MF= 8, MT=457
        NEUTRON MULTIPLICITY SUMUP FAILURE
            WHOLE= 1.09766E+00  SUM= 1.04901E+00
     ```

  8. Energies released in decay not adding up!
     MAT= 861, MF= 8, MT=457 (8): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT= 861, MF= 8, MT=457
        NEUTRON AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 1.04658E+06  SUM= 1.06288E+06
     ```