Release notes for ENDF/B Development dec-059_Pr_154 evaluation

October 13, 2016

- `fizcon` Errors:

  1. Parity set to illegal value
     MAT=2000, MF= 8, MT=457 (1): Bad parity

     ```
     ERROR(S) FOUND IN MAT=2000, MF= 8, MT=457
        PARITY= 0.00000E+00 NOT +1.0 OR -1.0
     ```

  2. Generic error message
     MAT=2000, MF= 8, MT=457 (2): Error

     ```
     ERROR(S) FOUND IN MAT=2000, MF= 8, MT=457
        E(MAXIMUM) > Q  E= 1.08000E+06  Q= 1.07596E+06
     ```

  3. Energies released in decay not adding up!
     MAT=2000, MF= 8, MT=457 (3): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT=2000, MF= 8, MT=457
        TOTAL ENERGY RELEASE SUMUP FAILURE
            WHOLE= 7.48068E+06  SUM= 4.94970E+06
     ```

  4. Energies released in decay not adding up!
     MAT=2000, MF= 8, MT=457 (4): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT=2000, MF= 8, MT=457
        GAMMA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 2.99726E+06  SUM= 3.01487E+06
     ```

  5. Energies released in decay not adding up!
     MAT=2000, MF= 8, MT=457 (5): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT=2000, MF= 8, MT=457
        BETA MULTIPLICITY SUMUP FAILURE
            WHOLE= 1.00000E+00  SUM= 1.00049E+00
     ```

  6. Energies released in decay not adding up!
     MAT=2000, MF= 8, MT=457 (6): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT=2000, MF= 8, MT=457
        BETA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 1.92952E+06  SUM= 1.93452E+06
     ```

  7. Energies released in decay not adding up!
     MAT=2000, MF= 8, MT=457 (7): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT=2000, MF= 8, MT=457
        NEUTRON AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 3.05761E+02  SUM= 3.15099E+02
     ```