# Release notes for ENDF/B Development dec-051_Sb_137 evaluation

October 14, 2016

- `fizcon` Errors:

  1. Parity set to illegal value
     *MAT=1617, MF= 8, MT=457 (1): Bad parity*

     ```
     ERROR(S) FOUND IN MAT=1617, MF= 8, MT=457
        PARITY= 0.00000E+00 NOT +1.0 OR -1.0
     ```

  2. Energies released in decay not adding up!
     *MAT=1617, MF= 8, MT=457 (2): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=1617, MF= 8, MT=457
        TOTAL ENERGY RELEASE SUMUP FAILURE
            WHOLE= 6.00844E+06  SUM= 3.54290E+06
     ```

  3. Energies released in decay not adding up!
     *MAT=1617, MF= 8, MT=457 (3): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=1617, MF= 8, MT=457
        GAMMA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 8.51323E+05  SUM= 8.58081E+05
     ```

  4. Energies released in decay not adding up!
     *MAT=1617, MF= 8, MT=457 (4): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=1617, MF= 8, MT=457
        BETA MULTIPLICITY SUMUP FAILURE
            WHOLE= 1.00083E+00  SUM= 1.00048E+00
     ```

  5. Energies released in decay not adding up!
     *MAT=1617, MF= 8, MT=457 (5): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=1617, MF= 8, MT=457
        BETA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 1.91472E+06  SUM= 1.91972E+06
     ```

  6. Energies released in decay not adding up!
     *MAT=1617, MF= 8, MT=457 (6): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=1617, MF= 8, MT=457
        NEUTRON MULTIPLICITY SUMUP FAILURE
            WHOLE= 1.00070E+00  SUM= 1.00037E+00
     ```

  7. Energies released in decay not adding up!
     *MAT=1617, MF= 8, MT=457 (7): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=1617, MF= 8, MT=457
        NEUTRON AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 7.54459E+05  SUM= 7.65095E+05
     ```