Release notes for ENDF/B Development dec-030_Zn_081 evaluation

October 14, 2016

- `fizcon` Errors:

  1. Parity set to illegal value
     MAT= 678, MF= 8, MT=457 (1): Bad parity

     ```
     ERROR(S) FOUND IN MAT= 678, MF= 8, MT=457
        PARITY= 0.00000E+00 NOT +1.0 OR -1.0
     ```

  2. All probability distributions should be normalized to 1, this one isn't.
     MAT= 678, MF= 8, MT=457 (2): Bad norm (b)

     ```
     ERROR(S) FOUND IN MAT= 678, MF= 8, MT=457
        NORMALIZATION CHECK INTEGRAL= 1.00737E+00 BEFORE
     ```

  3. Energies released in decay not adding up!
     MAT= 678, MF= 8, MT=457 (3): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT= 678, MF= 8, MT=457
        TOTAL ENERGY RELEASE SUMUP FAILURE
            WHOLE= 1.09426E+07  SUM= 7.12449E+06
     ```

  4. Energies released in decay not adding up!
     MAT= 678, MF= 8, MT=457 (4): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT= 678, MF= 8, MT=457
        GAMMA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 3.71281E+06  SUM= 3.73871E+06
     ```

  5. Energies released in decay not adding up!
     MAT= 678, MF= 8, MT=457 (5): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT= 678, MF= 8, MT=457
        BETA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 3.32410E+06  SUM= 3.32911E+06
     ```

  6. Energies released in decay not adding up!
     MAT= 678, MF= 8, MT=457 (6): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT= 678, MF= 8, MT=457
        NEUTRON AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 5.55914E+04  SUM= 5.66747E+04
     ```