Release notes for ENDF/B Development dec-029_Cu_081 evaluation

October 14, 2016

- `fizcon` Errors:

  1. Generic error message
     MAT= 643, MF= 8, MT=457 (1): Error

     ```
     ERROR(S) FOUND IN MAT= 643, MF= 8, MT=457
        E(MAXIMUM) > Q  E= 1.40600E+07  Q= 1.16340E+04
     ```

  2. Generic error message
     MAT= 643, MF= 8, MT=457 (2): Error

     ```
     ERROR(S) FOUND IN MAT= 643, MF= 8, MT=457
        E(MAXIMUM) > Q  E= 1.05800E+07  Q= 1.16340E+04
     ```

  3. Generic error message
     MAT= 643, MF= 8, MT=457 (3): Error

     ```
     ERROR(S) FOUND IN MAT= 643, MF= 8, MT=457
        E(MAXIMUM) > Q  E= 1.14400E+07  Q= 1.16340E+04
     ```

  4. Energies released in decay not adding up!
     MAT= 643, MF= 8, MT=457 (4): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT= 643, MF= 8, MT=457
        TOTAL ENERGY RELEASE SUMUP FAILURE
            WHOLE= 1.13067E+04  SUM= 7.19455E+06
     ```

  5. Energies released in decay not adding up!
     MAT= 643, MF= 8, MT=457 (5): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT= 643, MF= 8, MT=457
        GAMMA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 1.97844E+06  SUM= 1.99369E+06
     ```

  6. Energies released in decay not adding up!
     MAT= 643, MF= 8, MT=457 (6): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT= 643, MF= 8, MT=457
        BETA MULTIPLICITY SUMUP FAILURE
            WHOLE= 1.10077E+00  SUM= 1.00012E+00
     ```

  7. Energies released in decay not adding up!
     MAT= 643, MF= 8, MT=457 (7): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT= 643, MF= 8, MT=457
        BETA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 3.44955E+06  SUM= 3.45455E+06
     ```

  8. Energies released in decay not adding up!
     MAT= 643, MF= 8, MT=457 (8): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT= 643, MF= 8, MT=457
        NEUTRON MULTIPLICITY SUMUP FAILURE
            WHOLE= 1.10077E+00  SUM= 1.05038E+00
     ```

9. Energies released in decay not adding up!
   MAT= 643, MF= 8, MT=457 (9): Bad energy sum

```
ERROR(S) FOUND IN MAT= 643, MF= 8, MT=457
   NEUTRON AVERAGE ENERGY SUMUP FAILURE
       WHOLE= 1.71948E+06  SUM= 1.74630E+06
```