Release notes for ENDF/B Development dec-039_Y_099 evaluation

October 14, 2016

- `fizcon` Errors:

  1. A discrete gamma energy is not energetically possible for the given Q value
     MAT=1013, MF= 8, MT=457 (1): Eg too big

     ```
     ERROR(S) FOUND IN MAT=1013, MF= 8, MT=457
        E(DISCRETE) > Q  E= 6.99232E+06  Q= 6.96761E+06
     ```

  2. A discrete gamma energy is not energetically possible for the given Q value
     MAT=1013, MF= 8, MT=457 (2): Eg too big

     ```
     ERROR(S) FOUND IN MAT=1013, MF= 8, MT=457
        E(DISCRETE) > Q  E= 7.31604E+06  Q= 6.96761E+06
     ```

  3. A discrete gamma energy is not energetically possible for the given Q value
     MAT=1013, MF= 8, MT=457 (3): Eg too big

     ```
     ERROR(S) FOUND IN MAT=1013, MF= 8, MT=457
        E(DISCRETE) > Q  E= 7.44626E+06  Q= 6.96761E+06
     ```

  4. A discrete gamma energy is not energetically possible for the given Q value
     MAT=1013, MF= 8, MT=457 (4): Eg too big

     ```
     ERROR(S) FOUND IN MAT=1013, MF= 8, MT=457
        E(DISCRETE) > Q  E= 7.56800E+06  Q= 6.96761E+06
     ```

  5. Generic error message
     MAT=1013, MF= 8, MT=457 (5): Error

     ```
     ERROR(S) FOUND IN MAT=1013, MF= 8, MT=457
        E(MAXIMUM) > Q  E= 2.57000E+06  Q= 2.56546E+06
     ```

  6. Energies released in decay not adding up!
     MAT=1013, MF= 8, MT=457 (6): Bad energy sum

     ```
     ERROR(S) FOUND IN MAT=1013, MF= 8, MT=457
        NEUTRON AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 7.44494E+03  SUM= 7.60752E+03
     ```