Release notes for ENDF/B Development dec-068_Er_149m1 evaluation

May 3, 2017

- `fizcon` Errors:

  1. Illegal value of RTYPE encountered
     MAT=2395, MF= 8, MT=457 (1): Bad RTYPE

     ```
     ERROR(S) FOUND IN MAT=2395, MF= 8, MT=457
         7 IN RTYPE =  2.70000E+00 IS INVALID       NEAR SEQUENCE NUMBER     6
     ```

  2. A discrete gamma energy is not energetically possible for the given Q value
     MAT=2395, MF= 8, MT=457 (2): Eg too big

     ```
     ERROR(S) FOUND IN MAT=2395, MF= 8, MT=457
        E(DISCRETE) > Q  E= 4.65110E+06  Q= 0.00000E+00  SEQUENCE NUMBER   222
     ```

  3. A discrete gamma energy is not energetically possible for the given Q value
     MAT=2395, MF= 8, MT=457 (3): Eg too big

     ```
     ERROR(S) FOUND IN MAT=2395, MF= 8, MT=457
        E(DISCRETE) > Q  E= 4.65800E+06  Q= 0.00000E+00  SEQUENCE NUMBER   224
     ```

  4. A discrete gamma energy is not energetically possible for the given Q value
     MAT=2395, MF= 8, MT=457 (4): Eg too big

     ```
     ERROR(S) FOUND IN MAT=2395, MF= 8, MT=457
        E(DISCRETE) > Q  E= 4.96070E+06  Q= 0.00000E+00  SEQUENCE NUMBER   226
     ```

  5. A discrete gamma energy is not energetically possible for the given Q value
     MAT=2395, MF= 8, MT=457 (5): Eg too big

     ```
     ERROR(S) FOUND IN MAT=2395, MF= 8, MT=457
        E(DISCRETE) > Q  E= 5.03840E+06  Q= 0.00000E+00  SEQUENCE NUMBER   228
     ```

  6. A discrete gamma energy is not energetically possible for the given Q value
     MAT=2395, MF= 8, MT=457 (6): Eg too big

     ```
     ERROR(S) FOUND IN MAT=2395, MF= 8, MT=457
        E(DISCRETE) > Q  E= 5.69490E+06  Q= 0.00000E+00  SEQUENCE NUMBER   230
     ```

  7. A discrete gamma energy is not energetically possible for the given Q value
     MAT=2395, MF= 8, MT=457 (7): Eg too big

     ```
     ERROR(S) FOUND IN MAT=2395, MF= 8, MT=457
        E(DISCRETE) > Q  E= 5.70540E+06  Q= 0.00000E+00  SEQUENCE NUMBER   232
     ```

  8. A discrete gamma energy is not energetically possible for the given Q value
     MAT=2395, MF= 8, MT=457 (8): Eg too big

     ```
     ERROR(S) FOUND IN MAT=2395, MF= 8, MT=457
        E(DISCRETE) > Q  E= 7.37200E+06  Q= 0.00000E+00  SEQUENCE NUMBER   234
     ```

  9. Energies released in decay not adding up!
     MAT=2395, MF= 8, MT=457 (9): Bad energy sum

```
ERROR(S) FOUND IN MAT=2395, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
       WHOLE= 8.38249E+06  SUM= 5.40832E+06         SEQUENCE NUMBER     1
```

10. Energies released in decay not adding up!
    MAT=2395, MF= 8, MT=457 (10): Bad energy sum

```
ERROR(S) FOUND IN MAT=2395, MF= 8, MT=457
   PARTICLE ENERGY (AE) SUMUP FAILURE
       WHOLE= 1.15572E+04  SUM= 1.14802E+04         SEQUENCE NUMBER     3
```

11. Energies released in decay not adding up!
    MAT=2395, MF= 8, MT=457 (11): Bad energy sum

```
ERROR(S) FOUND IN MAT=2395, MF= 8, MT=457
   PROTON MULTIPLICITY SUMUP FAILURE
       WHOLE= 0.00000E+00  SUM= 1.70000E-03
```