Release notes for ENDF/B Development dec-091_Pa_231 evaluation

October 14, 2016

- `checkr` Errors:

  1. STYPE out of order
     MAT=3487, MF= 8, MT=457 (0): STYPE goof

```
ERROR(S) FOUND IN MAT=3487, MF= 8, MT=457
   STYPE  5.0 OUT OF ORDER                          RECORD NUMBER     313
```

- `fizcon` Errors:

  1. Energies released in decay not adding up!
     MAT=3487, MF= 8, MT=457 (1): Bad energy sum

```
ERROR(S) FOUND IN MAT=3487, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
       WHOLE= 5.14990E+06  SUM= 5.08158E+06
```

  2. Energies released in decay not adding up!
     MAT=3487, MF= 8, MT=457 (2): Bad energy sum

```
ERROR(S) FOUND IN MAT=3487, MF= 8, MT=457
   PARTICLE ENERGY (AE) SUMUP FAILURE
       WHOLE= 5.00895E+06  SUM= 4.92369E+06         SEQUENCE NUMBER     2
```

  3. Energies released in decay not adding up!
     MAT=3487, MF= 8, MT=457 (3): Bad energy sum

```
ERROR(S) FOUND IN MAT=3487, MF= 8, MT=457
   ALPHA MULTIPLICITY SUMUP FAILURE
       WHOLE= 1.00000E+00  SUM= 9.90690E-01
```

  4. Energies released in decay not adding up!
     MAT=3487, MF= 8, MT=457 (4): Bad energy sum

```
ERROR(S) FOUND IN MAT=3487, MF= 8, MT=457
   ALPHA AVERAGE ENERGY SUMUP FAILURE
       WHOLE= 4.92369E+06  SUM= 5.01049E+06
```

  5. Energies released in decay not adding up!
     MAT=3487, MF= 8, MT=457 (5): Bad energy sum

```
ERROR(S) FOUND IN MAT=3487, MF= 8, MT=457
   NEUTRON MULTIPLICITY SUMUP FAILURE
       WHOLE= 0.00000E+00  SUM= 1.00000E+00
```

  6. Energies released in decay not adding up!
     MAT=3487, MF= 8, MT=457 (6): Bad energy sum

```
ERROR(S) FOUND IN MAT=3487, MF= 8, MT=457
   NEUTRON AVERAGE ENERGY SUMUP FAILURE
       WHOLE= 9.31200E-06  SUM= 5.08812E-04
```