# Release notes for ENDF/B Development dec-056_Ba_144 evaluation

October 13, 2016

- `fizcon` Errors:

  1. All probability distributions should be normalized to 1, this one isn't.
     *MAT=1855, MF= 8, MT=457 (1): Bad norm (b)*

     ```
     ERROR(S) FOUND IN MAT=1855, MF= 8, MT=457
        NORMALIZATION CHECK INTEGRAL= 1.00139E+00 BEFORE
     ```

  2. Energies released in decay not adding up!
     *MAT=1855, MF= 8, MT=457 (2): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=1855, MF= 8, MT=457
        TOTAL ENERGY RELEASE SUMUP FAILURE
            WHOLE= 3.06641E+06  SUM= 1.59942E+06
     ```

  3. Energies released in decay not adding up!
     *MAT=1855, MF= 8, MT=457 (3): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=1855, MF= 8, MT=457
        BETA ENERGY (BE) SUMUP FAILURE
            WHOLE= 9.02270E+05  SUM= 9.93646E+05         SEQUENCE NUMBER     2
     ```

  4. Energies released in decay not adding up!
     *MAT=1855, MF= 8, MT=457 (4): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=1855, MF= 8, MT=457
        GAMMA ENERGY (GE) SUMUP FAILURE
            WHOLE= 7.85050E+05  SUM= 5.86717E+05         SEQUENCE NUMBER     2
     ```

  5. Energies released in decay not adding up!
     *MAT=1855, MF= 8, MT=457 (5): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=1855, MF= 8, MT=457
        GAMMA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 5.86717E+05  SUM= 6.00769E+05
     ```

  6. Energies released in decay not adding up!
     *MAT=1855, MF= 8, MT=457 (6): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=1855, MF= 8, MT=457
        BETA MULTIPLICITY SUMUP FAILURE
            WHOLE= 1.00000E+00  SUM= 1.00139E+00
     ```

  7. Energies released in decay not adding up!
     *MAT=1855, MF= 8, MT=457 (7): Bad energy sum*

     ```
     ERROR(S) FOUND IN MAT=1855, MF= 8, MT=457
        BETA AVERAGE ENERGY SUMUP FAILURE
            WHOLE= 9.93646E+05  SUM= 9.98651E+05
     ```