Release notes for ENDF/B Development g-082_Pb_206 evaluation

December 2, 2016

- `checkr` Warnings:

  1. A previous error halted parsing of the current section
     MAT=8231, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=8231, MF= 1, MT=451
   SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      237 TO     239
```

- `checkr` Errors:

  1. A variable is outside the allowed ENDF range
     MAT=8231, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=8231, MF= 1, MT=451
   MOD =     1 OUT OF RANGE     0 -     0           RECORD NUMBER     237
```

  2. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=8231, MF= 6, MT= 5 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=8231, MF= 6, MT=  5
   SECTION  6/  5 NOT IN DIRECTORY                 RECORD NUMBER     263
```

- `fudge-4.0` Errors:

  1. Calculated and tabulated thresholds don't agree
     reaction label 0: sumOfRemainingOutputChannels / Cross section: (Error # 0): Threshold mismatch

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 8.e6 eV!
```

  2. The r(E) in Kalbach-Mann formulation is outside of allowed bounds
     reaction label 0: sumOfRemainingOutputChannels / Product: H1 / Distribution: / KalbachMann - KalbachMann: (Error # 0): Kalbach goof

```
WARNING: Invalid 'r' in KalbachMann distribution at incident energy 1.5e7 eV. Value=2.0, should be in range 0 ->
```