

Release notes for ENDF/B-VII.1 thermal_scatt sublibrary

December 20, 2011

ERROR SUMMARY

checkr The incident particle Emax does not extend far enough (should be 20 MeV for neutrons):
ts1-013_Al_027.endf, ts1-026_Fe_056.endf

fizcon A bad value in a data table is resulting in $\log(x)$ where $x \leq 0.0$: ts1-013_Al_027.endf,
ts1-026_Fe_056.endf

tsl-013_Al_027.endf

- checkr Errors:

1. The incident particle Emax does not extend far enough (should be 20 MeV for neutrons)

```
ERROR(S) FOUND IN MAT= 53, MF= 1, MT=451
EMAX = 0.00E+00 OUT OF RANGE 1.00E+06 - 5.00E+08 SEQUENCE NUMBER    3
DIST-DEC06                                20111222
```

- fizcon Errors:

1. A bad value in a data table is resulting in log(x) where x .le. 0.0

```
ERROR(S) FOUND IN MAT= 53, MF= 7, MT= 4
NEG OR ZERO ARG OF LOG BELOW POINT 143          SEQUENCE NUMBER    55
NEG OR ZERO ARG OF LOG BELOW POINT 144          SEQUENCE NUMBER    55
NEG OR ZERO ARG OF LOG BELOW POINT 145          SEQUENCE NUMBER    56
...
```

tsl-026_Fe_056.endf

- checkr Errors:

1. The incident particle Emax does not extend far enough (should be 20 MeV for neutrons)

```
ERROR(S) FOUND IN MAT= 56, MF= 1, MT=451
EMAX = 0.00E+00 OUT OF RANGE 1.00E+06 - 5.00E+08 SEQUENCE NUMBER    3
DIST-DEC06                                20111222
```

- fizcon Errors:

1. A bad value in a data table is resulting in log(x) where x .le. 0.0

```
ERROR(S) FOUND IN MAT= 56, MF= 7, MT= 4
NEG OR ZERO ARG OF LOG BELOW POINT 74          SEQUENCE NUMBER    32
NEG OR ZERO ARG OF LOG BELOW POINT 75          SEQUENCE NUMBER    32
NEG OR ZERO ARG OF LOG BELOW POINT 76          SEQUENCE NUMBER    33
...
```

tsl-Be-metal.endf

- Passed All Checks!

tsl-BeinBe0.endf

- Passed All Checks!

tsl-DinD20.endf
