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

December 20, 2011
ERROR SUMMARY


fizcon  A discrete gamma energy is not energetically possible for the given Q value: dec-050_Sn_113.endf

fizcon  A unknown parameter is outside of legal limits: dec-098_Cf_252.endf


fizcon  At least one gamma ray needed for given source mode: dec-077_Ir_166.endf, dec-084_Po_191m1.endf, dec-087_Fr_218m1.endf, dec-089_Ac_221.endf, dec-091_Pa_218.endf, dec-091_Pa_223.endf, dec-091_Pa_225.endf, dec-093_Np_226.endf, dec-102_No_257.endf

dec-086_Rn_220.endf, dec-086_Rn_222.endf, dec-087_Fr_201.endf, dec-087_Fr_208.endf,
dec-087_Fr_214.endf, dec-087_Fr_214m1.endf, dec-087_Fr_215.endf, dec-087_Fr_216.endf,
dec-087_Fr_217.endf, dec-087_Fr_219.endf, dec-087_Fr_220.endf, dec-087_Fr_221.endf,
dec-087_Fr_223.endf, dec-087_Fr_229.endf, dec-088_Ra_203.endf, dec-088_Ra_214.endf,
dec-088_Ra_215.endf, dec-088_Ra_217.endf, dec-088_Ra_220.endf, dec-088_Ra_222.endf,
dec-088_Ra_223.endf, dec-088_Ra_224.endf, dec-088_Ra_226.endf, dec-089_Ac_207.endf,
dec-089_Ac_208.endf, dec-089_Ac_209.endf, dec-089_Ac_211.endf, dec-089_Ac_213.endf,
dec-089_Ac_215.endf, dec-089_Ac_216.endf, dec-089_Ac_216m1.endf, dec-089_Ac_217.endf,
dec-089_Ac_218.endf, dec-089_Ac_219.endf, dec-089_Ac_220.endf, dec-089_Ac_222.endf,
dec-089_Ac_226.endf, dec-090_Th_210.endf, dec-090_Th_213.endf, dec-090_Th_216.endf,
dec-090_Th_217.endf, dec-090_Th_218.endf, dec-090_Th_219.endf, dec-090_Th_222.endf,
dec-090_Th_223.endf, dec-090_Th_226.endf, dec-090_Th_227.endf, dec-090_Th_228.endf,
dec-090_Th_229.endf, dec-090_Th_230.endf, dec-090_Th_232.endf, dec-091_Pa_217.endf,
dec-091_Pa_219.endf, dec-091_Pa_224.endf, dec-091_Pa_228.endf, dec-091_Pa_231.endf,
dec-091_Pa_234m1.endf, dec-092_U_219.endf, dec-092_U_223.endf, dec-092_U_230.endf,
dec-092_U_232.endf, dec-092_U_233.endf, dec-092_U_234.endf, dec-092_U_235.endf,
dec-092_U_235m1.endf, dec-092_U_236.endf, dec-092_U_238.endf, dec-093_Np_237.endf,
dec-094_Pu_236.endf, dec-094_Pu_238.endf, dec-094_Pu_239.endf, dec-094_Pu_240.endf,
dec-094_Pu_241.endf, dec-094_Pu_242.endf, dec-094_Pu_244.endf, dec-095_Am_237.endf,
dec-095_Am_238.endf, dec-095_Am_241.endf, dec-095_Am_242m1.endf, dec-095_Am_243.endf,
dec-096_Cm_240.endf, dec-096_Cm_242.endf, dec-096_Cm_244.endf, dec-096_Cm_245.endf,
dec-096_Cm_246.endf, dec-096_Cm_247.endf, dec-096_Cm_248.endf, dec-097_Bk_249.endf,
dec-098_Cf_246.endf, dec-098_Cf_248.endf, dec-098_Cf_249.endf, dec-098_Cf_250.endf,
dec-098_Cf_251.endf, dec-098_Cf_252.endf, dec-099_Es_251.endf, dec-099_Es_253.endf,
dec-099_Es_254.endf, dec-100_Fm_252.endf, dec-100_Fm_254.endf, dec-100_Fm_255.endf,
dec-100_Fm_257.endf
• **checkr** Non-errors:

1. Element symbol not all in CAPITAL letters.

   WARNING(S) IN MAT= 1, MF= 1, MT=451
   *ZSYNAM SHOULD BE " 0-nn- 1" NOT " 0-Nn- 1" SEQUENCE NUMBER 5

• **fizcon** Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 1, MF= 1, MT=451
   *ZA SHOULD BE SET TO 1.01000E+02* SEQUENCE NUMBER 1

2. FIZCON apparently has a bug in its calculation of log(FT) values that causes it to have trouble with nearly stable nuclei

   ERROR(S) FOUND IN MAT= 1, MF= 8, MT=457

   ERROR CALCULATING BETA SPECTRUM INTEGRAL
   *FT VALUE TOO SMALL* SEQUENCE NUMBER 8
   
   FT= 0.00000E+00 E= 7.82347E+05 I= 1 SEQUENCE NUMBER 8

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 2, MF= 8, MT=457
   *BRANCHING RATIO SUMUP FAILURE*
   *WHOLE= 1.00000E+00 SUM= 0.00000E+00* SEQUENCE NUMBER 4
   *NO DECAY SPECTRA GIVEN* SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 2, MF= 1, MT=451
   *ZA SHOULD BE SET TO 1.02000E+02* SEQUENCE NUMBER 1
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 3, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00
   NO DECAY SPECTRA GIVEN

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 3, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.03000E+02

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• **fizcon** Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 4, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.04000E+02

---

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 5, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 5, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.05000E+02

---

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 6, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 6, MF= 1, MT=451  
ZA SHOULD BE SET TO 1.06000E+02  SEQUENCE NUMBER 1
```

```
de-001_H_006.endf
```

- **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 7, MF= 8, MT=457  
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5
```

```
de-001_H_007.endf
```

- **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 8, MF= 8, MT=457  
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5
```

```
de-002_He_003.endf
```

- **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 9, MF= 8, MT=457  
BRANCHING RATIO SUMUP FAILURE  
WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5
```

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2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 9, MF= 1, MT=451
ZA SHOULD BE SET TO 1.09000E+02 SEQUENCE NUMBER 1

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 10, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 10, MF= 1, MT=451
ZA SHOULD BE SET TO 1.10000E+02 SEQUENCE NUMBER 1

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 11, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 11, MF= 1, MT=451
ZA SHOULD BE SET TO 1.11000E+02 SEQUENCE NUMBER 1

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 12, MF= 8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.56762E+06 SUM= 1.56170E+06
Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 12, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.12000E+02 SEQUENCE NUMBER 1

   

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 13, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 13, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.13000E+02 SEQUENCE NUMBER 1

Errors:

1. Beta spectrum integral too small

   ERROR(S) FOUND IN MAT= 14, MF= 8, MT=457
   FT VALUE TOO SMALL SEQUENCE NUMBER 13
   FT= 5.68909E+01 E= 9.81000E+05 I= 2 SEQUENCE NUMBER 13
   TOTAL ENERGY RELEASE SUMUP FAILURE

   ...

Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 14, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.14000E+02 SEQUENCE NUMBER 1

   

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 15, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN                   SEQUENCE NUMBER  5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 15, MF= 1, MT=451
   ZA SHOULD BE SET TO  1.15000E+02            SEQUENCE NUMBER  1

----------dec-002_He_010.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 16, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN                   SEQUENCE NUMBER  5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 16, MF= 1, MT=451
   ZA SHOULD BE SET TO  1.16000E+02            SEQUENCE NUMBER  1

----------dec-003_Li_004.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 17, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN                   SEQUENCE NUMBER  5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 17, MF= 1, MT=451
   ZA SHOULD BE SET TO  1.17000E+02            SEQUENCE NUMBER  1

----------dec-003_Li_005.endf

• fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT= 18, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 18, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.18000E+02 SEQUENCE NUMBER 1

---

dec-003_Li_006.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT= 19, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 19, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.19000E+02 SEQUENCE NUMBER 1

---

dec-003_Li_007.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT= 20, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 20, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.20000E+02 SEQUENCE NUMBER 1
Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT= 21, MF= 8, MT=457
   E(DISCRETE) > Q  E= 1.56600E+06  Q= 0.00000E+00  SEQUENCE NUMBER  12
   GAMMA ENERGY (GE) SUMUP FAILURE
   WHOLE= 3.29831E+04  SUM= 0.00000E+00  SEQUENCE NUMBER  3

Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 21, MF= 1, MT=451
   ZA SHOULD BE SET TO  1.21000E+02  SEQUENCE NUMBER  1
   DIST-FEB05 20111222

Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT= 22, MF= 8, MT=457
   GAMMA ENERGY (GE) SUMUP FAILURE
   WHOLE= 2.98957E+04  SUM= 0.00000E+00  SEQUENCE NUMBER  3

Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 22, MF= 1, MT=451
   ZA SHOULD BE SET TO  1.22000E+02  SEQUENCE NUMBER  1
   DIST-NOV07 20111222

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 23, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
PARITY= 0.000000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN

Sequence Number 4

ERROR(S) FOUND IN MAT= 24, MF= 1, MT=451
ZA SHOULD BE SET TO 1.23000E+02

Sequence Number 1

• fimcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 24, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

Sequence Number 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 24, MF= 1, MT=451
ZA SHOULD BE SET TO 1.24000E+02

Sequence Number 1

• fimcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 25, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

Sequence Number 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 25, MF= 1, MT=451
ZA SHOULD BE SET TO 1.25000E+02

Sequence Number 1

• fimcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 26, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 26, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.26000E+02

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dec-004_Be_006.endf
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fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 27, MF= 8, MT=457
   7 IN RTYPE = 7.70000E+00 IS INVALID
   NO DECAY SPECTRA GIVEN

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 27, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.27000E+02
```

---

```
dec-004_Be_007.endf
•
fizcon Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 28, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.28000E+02
```

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```
dec-004_Be_008.endf
•
fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 29, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
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2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 29, MF= 1, MT=451
ZA SHOULD BE SET TO  1.29000E+02 SEQUENCE NUMBER  1
```

• ﬁzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 30, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
  WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER  4
  NO DECAY SPECTRA GIVEN SEQUENCE NUMBER  5
```

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 30, MF= 1, MT=451
ZA SHOULD BE SET TO  1.30000E+02 SEQUENCE NUMBER  1
```

• ﬁzcon Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT= 31, MF= 8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 2.02560E+05 SUM= 2.52254E+05
```

• ﬁzcon Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 31, MF= 1, MT=451
ZA SHOULD BE SET TO  1.31000E+02 SEQUENCE NUMBER  1
```

• ﬁzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 32, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 32, MF= 1, MT=451
ZA SHOULD BE SET TO 1.32000E+02
SEQUENCE NUMBER 1

dec-004_Be_012.endf

*fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 33, MF= 8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 5.61490E+06 SUM= 5.58086E+06

fizcon Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 33, MF= 1, MT=451
ZA SHOULD BE SET TO 1.33000E+02
SEQUENCE NUMBER 1

dec-004_Be_013.endf

*fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 34, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 34, MF= 1, MT=451
ZA SHOULD BE SET TO 1.34000E+02
SEQUENCE NUMBER 1

dec-004_Be_014.endf

*fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 35, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 7

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 35, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.35000E+02
   SEQUENCE NUMBER 1

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• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 36, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 36, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.36000E+02
   SEQUENCE NUMBER 1

---

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 37, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 37, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.37000E+02
   SEQUENCE NUMBER 1

---

• **fizcon** Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 38, MF= 8, MT=457
7 IN RTYPE = 7.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 5
NO DECAY SPECTRA GIVEN
```

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 38, MF= 1, MT=451
ZA SHOULD BE SET TO 1.38000E+02
```

---

```
dec-005_B_007.endf
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 39, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 39, MF= 1, MT=451
ZA SHOULD BE SET TO 1.39000E+02
```

---

```
dec-005_B_008.endf
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 40, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 40, MF= 1, MT=451
ZA SHOULD BE SET TO 1.40000E+02
```

---

```
dec-005_B_009.endf
```

• **fizcon** Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 41, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 41, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.41000E+02
   SEQUENCE NUMBER 1

   ERROR(S) FOUND IN MAT= 42, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 4

   ERROR(S) FOUND IN MAT= 42, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.42000E+02
   SEQUENCE NUMBER 5

   ERROR(S) FOUND IN MAT= 43, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 4

   ERROR(S) FOUND IN MAT= 43, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.43000E+02
   SEQUENCE NUMBER 5

   ERROR(S) FOUND IN MAT= 44, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 4

   ERROR(S) FOUND IN MAT= 44, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.44000E+02
   SEQUENCE NUMBER 5

20
Errors:

1. Beta spectrum integral too small

```
ERROR(S) FOUND IN MAT= 44, MF= 8, MT=457
  FT VALUE TOO SMALL
    FT= 1.42342E+04  E= 3.06890E+06  I=  2
  TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 1.33689E+07  SUM= 1.32498E+07
  BETA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 6.35225E+06  SUM= 6.31090E+06
```

Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 44, MF= 1, MT=451
  ZA SHOULD BE SET TO  1.44000E+02
```

Errors:

1. Beta spectrum integral too small

```
ERROR(S) FOUND IN MAT= 44, MF= 8, MT=457
  FT VALUE TOO SMALL
    FT= 1.42342E+04  E= 3.06890E+06  I=  2
  TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 1.33689E+07  SUM= 1.32498E+07
  BETA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 6.35225E+06  SUM= 6.31090E+06
```

Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 44, MF= 1, MT=451
  ZA SHOULD BE SET TO  1.44000E+02
```

Errors:

1. Beta spectrum integral too small

```
ERROR(S) FOUND IN MAT= 44, MF= 8, MT=457
  FT VALUE TOO SMALL
    FT= 1.42342E+04  E= 3.06890E+06  I=  2
  TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 1.33689E+07  SUM= 1.32498E+07
  BETA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 6.35225E+06  SUM= 6.31090E+06
```

Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 45, MF= 1, MT=451
  ZA SHOULD BE SET TO  1.45000E+02
```

Errors:

1. Beta spectrum integral too small

```
ERROR(S) FOUND IN MAT= 44, MF= 8, MT=457
  FT VALUE TOO SMALL
    FT= 1.42342E+04  E= 3.06890E+06  I=  2
  TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 1.33689E+07  SUM= 1.32498E+07
  BETA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 6.35225E+06  SUM= 6.31090E+06
```

Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 44, MF= 1, MT=451
  ZA SHOULD BE SET TO  1.44000E+02
```

Errors:

1. Beta spectrum integral too small

```
ERROR(S) FOUND IN MAT= 44, MF= 8, MT=457
  FT VALUE TOO SMALL
    FT= 1.42342E+04  E= 3.06890E+06  I=  2
  TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 1.33689E+07  SUM= 1.32498E+07
  BETA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 6.35225E+06  SUM= 6.31090E+06
```

Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 44, MF= 1, MT=451
  ZA SHOULD BE SET TO  1.44000E+02
```

Errors:

1. Beta spectrum integral too small

```
ERROR(S) FOUND IN MAT= 44, MF= 8, MT=457
  FT VALUE TOO SMALL
    FT= 1.42342E+04  E= 3.06890E+06  I=  2
  TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 1.33689E+07  SUM= 1.32498E+07
  BETA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 6.35225E+06  SUM= 6.31090E+06
```

Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 44, MF= 1, MT=451
  ZA SHOULD BE SET TO  1.44000E+02
```

Errors:

1. Beta spectrum integral too small

```
ERROR(S) FOUND IN MAT= 44, MF= 8, MT=457
  FT VALUE TOO SMALL
    FT= 1.42342E+04  E= 3.06890E+06  I=  2
  TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 1.33689E+07  SUM= 1.32498E+07
  BETA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 6.35225E+06  SUM= 6.31090E+06
```

Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 44, MF= 1, MT=451
  ZA SHOULD BE SET TO  1.44000E+02
```

Errors:

1. Beta spectrum integral too small

```
ERROR(S) FOUND IN MAT= 44, MF= 8, MT=457
  FT VALUE TOO SMALL
    FT= 1.42342E+04  E= 3.06890E+06  I=  2
  TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 1.33689E+07  SUM= 1.32498E+07
  BETA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 6.35225E+06  SUM= 6.31090E+06
```

Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 44, MF= 1, MT=451
  ZA SHOULD BE SET TO  1.44000E+02
```

Errors:

1. Beta spectrum integral too small

```
ERROR(S) FOUND IN MAT= 44, MF= 8, MT=457
  FT VALUE TOO SMALL
    FT= 1.42342E+04  E= 3.06890E+06  I=  2
  TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 1.33689E+07  SUM= 1.32498E+07
  BETA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 6.35225E+06  SUM= 6.31090E+06
```

Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 47, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 7

ERROR(S) FOUND IN MAT= 47, MF= 1, MT=451
ZA SHOULD BE SET TO 1.47000E+02

SEQUENCE NUMBER 1

dec-005_B_016.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 48, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

ERROR(S) FOUND IN MAT= 48, MF= 1, MT=451
ZA SHOULD BE SET TO 1.48000E+02

SEQUENCE NUMBER 1

dec-005_B_017.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 49, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 9

ERROR(S) FOUND IN MAT= 49, MF= 1, MT=451
ZA SHOULD BE SET TO 1.49000E+02

SEQUENCE NUMBER 1

dec-005_B_018.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 50, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

```
ERROR(S) FOUND IN MAT= 50, MF= 1, MT=451
ZA SHOULD BE SET TO 1.50000E+02
SEQUENCE NUMBER 1
```

---

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 51, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 7
```

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 51, MF= 1, MT=451
ZA SHOULD BE SET TO 1.51000E+02
SEQUENCE NUMBER 1
```

---

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 52, MF= 8, MT=457
7 IN RTYPE = 7.70000E+00 IS INVALID
NO DECAY SPECTRA GIVEN
NEAR SEQUENCE NUMBER 5
SEQUENCE NUMBER 5
```

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 52, MF= 1, MT=451
ZA SHOULD BE SET TO 1.52000E+02
SEQUENCE NUMBER 1
```

---

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 53, MF= 1, MT=451
ZA SHOULD BE SET TO  1.54000E+02 SEQUENCE NUMBER  1
```

```
ERROR(S) FOUND IN MAT= 55, MF= 1, MT=451
ZA SHOULD BE SET TO  1.55000E+02 SEQUENCE NUMBER  1
```

```
ERROR(S) FOUND IN MAT= 56, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER  4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER  5
```

```
fizcon Errors:
1. Energies released in decay not adding up!
```

```
fizcon Non-errors:
1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.
```

```
ERROR(S) FOUND IN MAT= 54, MF= 8, MT=457
E.C. AVERAGE ENERGY SUMUP FAILURE
WHOLE= 8.07207E+05 SUM= 8.05062E+05
```

```
ERROR(S) FOUND IN MAT= 54, MF= 1, MT=451
ZA SHOULD BE SET TO  1.53000E+02 SEQUENCE NUMBER  1
```

```
ERROR(S) FOUND IN MAT= 53, MF= 1, MT=451
ZA SHOULD BE SET TO  1.53000E+02 SEQUENCE NUMBER  1
```

```
ERROR(S) FOUND IN MAT= 53, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 5
NO DECAY SPECTRA GIVEN
```

```
24
```
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 56, MF= 1, MT=451
ZA SHOULD BE SET TO 1.56000E+02 SEQUENCE NUMBER 1

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT= 57, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 57, MF= 1, MT=451
ZA SHOULD BE SET TO 1.57000E+02 SEQUENCE NUMBER 1

• fizcon Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 58, MF= 1, MT=451
ZA SHOULD BE SET TO 1.58000E+02 SEQUENCE NUMBER 1

• fizcon Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 59, MF= 1, MT=451
ZA SHOULD BE SET TO 1.59000E+02 SEQUENCE NUMBER 1

• fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 60, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 6

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 60, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.60000E+02

   SEQUENCE NUMBER 1

• dec-006_C_017.endf

• fnxcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 61, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 6

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 61, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.61000E+02

   SEQUENCE NUMBER 1

• dec-006_C_018.endf

• fnxcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 62, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 6

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 62, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.62000E+02

   SEQUENCE NUMBER 1

• dec-006_C_019.endf

• fnxcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 63, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 63, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.63000E+02 SEQUENCE NUMBER 1

---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 64, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 64, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.64000E+02 SEQUENCE NUMBER 1

---

• fizcon Non-errors:

27
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=  66, MF=  8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER  7

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT=  66, MF=  1, MT=451
   ZA SHOULD BE SET TO  1.66000E+02
   SEQUENCE NUMBER  1

---_dec-007_N_010.endf__________________________

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=  67, MF=  8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER  5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT=  67, MF=  1, MT=451
   ZA SHOULD BE SET TO  1.67000E+02
   SEQUENCE NUMBER  1

---_dec-007_N_011.endf__________________________

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=  68, MF=  8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER  5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT=  68, MF=  1, MT=451
   ZA SHOULD BE SET TO  1.68000E+02
   SEQUENCE NUMBER  1

---_dec-007_N_012.endf__________________________

• fizcon Errors:
1. Beta spectrum integral too small

   ERROR(S) FOUND IN MAT= 69, MF= 8, MT=457
   FT VALUE TOO SMALL
   FT= 2.69028E+04  E= 2.22810E+06  I= 3 SEQUENCE NUMBER 14

   FT VALUE TOO SMALL
   FT= 1.01084E+04  E= 4.62810E+06  I= 4 SEQUENCE NUMBER 16

   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 1.73381E+07  SUM= 1.71157E+07 SEQUENCE NUMBER 1

fizcon Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 69, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.69000E+02 SEQUENCE NUMBER 1

---

dec-007_N_013.endf

•

fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT= 70, MF= 8, MT=457
   E.C. AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 4.90854E+05  SUM= 4.90125E+05

fizcon Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 70, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.70000E+02 SEQUENCE NUMBER 1

---

dec-007_N_014.endf

•

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 71, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00 SEQUENCE NUMBER 4

   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

\[
\text{ERROR(S) FOUND IN MAT= 71, MF= 1, MT=451} \\
\text{ZA SHOULD BE SET TO 1.71000E+02 SEQUENCE NUMBER 1}
\]

```
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

\[
\text{ERROR(S) FOUND IN MAT= 72, MF= 8, MT=457} \\
\text{BRANCHING RATIO SUMUP FAILURE} \\
\text{WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4} \\
\text{NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5}
\]

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

\[
\text{ERROR(S) FOUND IN MAT= 72, MF= 1, MT=451} \\
\text{ZA SHOULD BE SET TO 1.72000E+02 SEQUENCE NUMBER 1}
\]

```

```
• fizcon Errors:

1. Energies released in decay not adding up!

\[
\text{ERROR(S) FOUND IN MAT= 73, MF= 8, MT=457} \\
\text{E(DISCRETE) > Q E= 1.81730E+06 Q= 0.00000E+00 SEQUENCE NUMBER 47} \\
\text{E(DISCRETE) > Q E= 2.01190E+06 Q= 0.00000E+00 SEQUENCE NUMBER 49} \\
\text{ALPHA MULTIPLICITY SUMUP FAILURE} \\
\text{WHOLE= 0.00000E+00 SUM= 1.20065E-05}
\]

```

```
• fizcon Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

\[
\text{ERROR(S) FOUND IN MAT= 73, MF= 1, MT=451} \\
\text{ZA SHOULD BE SET TO 1.73000E+02 SEQUENCE NUMBER 1}
\]

```

```
• fizcon Errors:

1. Energies released in decay not adding up!

30
fizcon Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 74, MF= 1, MT=451
   ZA SHOULD BE SET TO  1.74000E+02  SEQUENCE NUMBER 1

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 75, MF= 1, MT=451
   ZA SHOULD BE SET TO  1.75000E+02  SEQUENCE NUMBER 1

3. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 76, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 6

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 76, MF= 1, MT=451
   ZA SHOULD BE SET TO  1.76000E+02  SEQUENCE NUMBER 1
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=77, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT=77, MF=1, MT=451
   ZA SHOULD BE SET TO 1.77000E+02
   SEQUENCE NUMBER 1

---

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=78, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT=78, MF=1, MT=451
   ZA SHOULD BE SET TO 1.78000E+02
   SEQUENCE NUMBER 1

---

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=79, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 7

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT=79, MF=1, MT=451
   ZA SHOULD BE SET TO 1.79000E+02
   SEQUENCE NUMBER 1
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 80, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 80, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.80000E+02
   SEQUENCE NUMBER 1

---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 81, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 81, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.81000E+02
   SEQUENCE NUMBER 1

---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 82, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 82, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.82000E+02
   SEQUENCE NUMBER 1

---

• fizcon Non-errors:

33
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 83, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 83, MF= 1, MT=451
   ZA SHOULD BE SET TO  1.83000E+02
SEQUENCE NUMBER 1
```

```
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 84, MF= 8, MT=457
   7 IN RTYPE =  2.70000E+00 IS INVALID
   NEAR SEQUENCE NUMBER 5
   NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 84, MF= 1, MT=451
   ZA SHOULD BE SET TO  1.84000E+02
SEQUENCE NUMBER 1
```

```
• fizcon Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT= 85, MF= 8, MT=457
   E.C. AVERAGE ENERGY SUMUP FAILURE
   WHOLE=  7.76219E+05  SUM=  7.74294E+05
```

fizcon Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 85, MF= 1, MT=451
   ZA SHOULD BE SET TO  1.85000E+02
SEQUENCE NUMBER 1
```

```
```
• **fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT= 86, MF= 8, MT=457
   E.C. AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 7.34647E+05 SUM= 7.32935E+05

• **fizcon** Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 86, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.86000E+02 SEQUENCE NUMBER 1

---

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 87, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 87, MF= 1, MT=451
   ZA SHOULD BE SET TO 1.87000E+02 SEQUENCE NUMBER 1

---

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 88, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.
ERROR(S) FOUND IN MAT= 88, MF= 1, MT=451
ZA SHOULD BE SET TO  1.88000E+02  SEQUENCE NUMBER  1

•  

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 89, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE=  1.00000E+00  SUM=  0.00000E+00  SEQUENCE NUMBER  4
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 89, MF= 1, MT=451
ZA SHOULD BE SET TO  1.89000E+02  SEQUENCE NUMBER  1

•  

fizcon Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 90, MF= 1, MT=451
ZA SHOULD BE SET TO  1.90000E+02  SEQUENCE NUMBER  1

•  

fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 91, MF= 8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE=  1.19741E+06  SUM=  1.19348E+06

fizcon Non-errors:

1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 91, MF= 1, MT=451
ZA SHOULD BE SET TO  1.91000E+02  SEQUENCE NUMBER  1

36
1. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 92, MF= 1, MT=451  
   ZA SHOULD BE SET TO 1.92000E+02  
   SEQUENCE NUMBER 1

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 93, MF= 1, MT=451  
   ZA SHOULD BE SET TO 1.93000E+02  
   SEQUENCE NUMBER 1

3. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 93, MF= 8, MT=457  
   NO DECAY SPECTRA GIVEN  
   SEQUENCE NUMBER 6

4. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 94, MF= 1, MT=451  
   ZA SHOULD BE SET TO 1.94000E+02  
   SEQUENCE NUMBER 1
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 95, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

ERROR(S) FOUND IN MAT= 95, MF= 1, MT=451
ZA SHOULD BE SET TO  1.95000E+02
SEQUENCE NUMBER 1

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 96, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 96, MF= 1, MT=451
ZA SHOULD BE SET TO  1.96000E+02
SEQUENCE NUMBER 1

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 97, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 97, MF= 1, MT=451
ZA SHOULD BE SET TO  1.97000E+02
SEQUENCE NUMBER 1

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 98, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

ERROR(S) FOUND IN MAT= 98, MF= 1, MT=451
ZA SHOULD BE SET TO 1.98000E+02 SEQUENCE NUMBER 1

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 99, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

ERROR(S) FOUND IN MAT= 99, MF= 1, MT=451
ZA SHOULD BE SET TO 1.99000E+02 SEQUENCE NUMBER 1

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 100, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

ERROR(S) FOUND IN MAT= 100, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 8.00000E+00 SEQUENCE NUMBER 1

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 101, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

---------------------------------------------------------------------
dec-009_F_016.endf
---------------------------------------------------------------------

* fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 102, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

---------------------------------------------------------------------
dec-009_F_017.endf
---------------------------------------------------------------------

* Passed All Checks!

---------------------------------------------------------------------
dec-009_F_018.endf
---------------------------------------------------------------------

* Passed All Checks!

---------------------------------------------------------------------
dec-009_F_019.endf
---------------------------------------------------------------------

* fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 105, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
NO DECAY SPECTRA GIVEN

---------------------------------------------------------------------
dec-009_F_020.endf
---------------------------------------------------------------------

* fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 106, MF= 8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.48137E+06 SUM= 2.46693E+06

---------------------------------------------------------------------
dec-009_F_021.endf
---------------------------------------------------------------------

* Passed All Checks!

---------------------------------------------------------------------
dec-009_F_022.endf
---------------------------------------------------------------------

* fizcon Errors:
1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT= 108, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 1.08180E+07 SUM= 1.00685E+07 SEQUENCE NUMBER 1
   BETA MULTIPLICITY SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 9.14400E-01

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 109, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 110, MF= 8, MT=457
   NEGATIVE SPIN NOT ALLOWED SEQUENCE NUMBER 4
   SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL SEQUENCE NUMBER 4
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 111, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 112, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

______________________________________________________________________________
dec-009_F_027.endf __________________________________________________________________

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 113, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

______________________________________________________________________________
dec-009_F_028.endf __________________________________________________________________

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 114, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

______________________________________________________________________________
dec-009_F_029.endf __________________________________________________________________

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 115, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

______________________________________________________________________________
dec-009_F_030.endf __________________________________________________________________

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 116, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

______________________________________________________________________________
dec-009_F_031.endf __________________________________________________________________

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 118, MF= 8, MT=457
7 IN RTYPE = 7.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 5
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 118, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 9.00000E+00 SEQUENCE NUMBER 1

Passed All Checks!

Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 121, MF= 8, MT=457
E.C. AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 9.62136E+05 SUM= 9.59770E+05

• Fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 122, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 123, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 124, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fzcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 125, MF= 8, MT=457
X-RAY AVERAGE ENERGY SUMUP FAILURE
WHOLE= 4.05653E-04 SUM= 2.69848E-04

• Passed All Checks!

• Passed All Checks!
• **fizcon** Errors:

1. Energies released in decay not adding up!

`ERROR(S) FOUND IN MAT= 128, MF= 8, MT=457
  X-RAY AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 2.62656E+00 SUM= 1.74723E+00`

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

`ERROR(S) FOUND IN MAT= 129, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6`

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

`ERROR(S) FOUND IN MAT= 130, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7`

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

`ERROR(S) FOUND IN MAT= 131, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7`

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

`ERROR(S) FOUND IN MAT= 132, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7`
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 133, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 134, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 135, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 136, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 137, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 137, MF= 1, MT=451
  Z NOT IN RANGE  1.00000E+00 TO  1.00000E+01  SEQUENCE NUMBER  1
```

```
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 138, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

```
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 139, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6
```

```
• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 140, MF= 8, MT=457
  E.C. AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 1.10071E+06  SUM= 1.09759E+06
```

```
• Passed All Checks!
```

```
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 142, MF= 8, MT=457
  BRANCHING RATIO SUMUP FAILURE
    WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER  4
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```
• **fizcon Errors:**

  1. Energies released in decay not adding up!

    ```
    ERROR(S) FOUND IN MAT= 143, MF= 8, MT=457
    BETA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 5.55438E+05 SUM= 5.54168E+05
    X-RAY AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 1.05944E-04 SUM= 7.06292E-05
    ```

• **Passed All Checks!**

• **fizcon Errors:**

  1. Energies released in decay not adding up!

    ```
    ERROR(S) FOUND IN MAT= 145, MF= 8, MT=457
    X-RAY AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 9.69885E-04 SUM= 6.46590E-04
    ```

• **fizcon Errors:**

  1. Energies released in decay not adding up!

    ```
    ERROR(S) FOUND IN MAT= 146, MF= 8, MT=457
    X-RAY AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 2.42778E-04 SUM= 1.61852E-04
    ```

• **Passed All Checks!**

• **Passed All Checks!**

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 149, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

dec-011_Na_030.endf

• fizcon  Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 150, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 8

dec-011_Na_031.endf

• fizcon  Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 151, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

dec-011_Na_032.endf

• fizcon  Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 152, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED
SEQUENCE NUMBER 4
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
SEQUENCE NUMBER 4
PARITY= 0.00000E+00 NOT +1.0 OR -1.0
SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 7

dec-011_Na_033.endf

• fizcon  Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 153, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 7

dec-011_Na_034.endf

• fizcon  Non-errors:  

49
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 154, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

dec-011_Na_035.endf

- fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 155, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

dec-011_Na_036.endf

- fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 156, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

dec-011_Na_037.endf

- fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 157, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

dec-012_Mg_019.endf

- fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 158, MF= 8, MT=457
7 IN RTYPE = 7.70000E+00 IS INVALID
NO DECAY SPECTRA GIVEN
NEAR SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.
ERROR(S) FOUND IN MAT= 158, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 1.10000E+01 SEQUENCE NUMBER 1

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 159, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 159, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 1.10000E+01 SEQUENCE NUMBER 1

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 160, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 163, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 164, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00
   SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 165, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00
   SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 169, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 170, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

_____________________________dec-012_Mg_032.endf_____________________________
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 171, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

_____________________________dec-012_Mg_033.endf_____________________________
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 172, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

_____________________________dec-012_Mg_034.endf_____________________________
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 173, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

_____________________________dec-012_Mg_035.endf_____________________________
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 174, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

_____________________________dec-012_Mg_036.endf_____________________________
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 175, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 176, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 177, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 178, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 179, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 180, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 1.20000E+01 SEQUENCE NUMBER 1

ERROR(S) FOUND IN MAT= 181, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 181, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 181, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 1.20000E+01 SEQUENCE NUMBER 1

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 182, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

Passed All Checks!
ERROR(S) FOUND IN MAT= 184, MF= 8, MT=457  
NO DECAY SPECTRA GIVEN  
SEQUENCE NUMBER 7

• fizzcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 185, MF= 8, MT=457  
E.C. AVERAGE ENERGY SUMUP FAILURE  
WHOLE= 1.45244E+06 SUM= 1.44785E+06

• Passed All Checks!

ERROR(S) FOUND IN MAT= 187, MF= 8, MT=457  
E.C. AVERAGE ENERGY SUMUP FAILURE  
WHOLE= 1.43837E+06 SUM= 1.43385E+06  
SEQUENCE NUMBER 4  
NO DECAY SPECTRA GIVEN  
SEQUENCE NUMBER 5

• fizzcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 188, MF= 8, MT=457  
BRANCHING RATIO SUMUP FAILURE  
WHOLE= 1.00000E+00 SUM= 0.00000E+00  
SEQUENCE NUMBER 4

• fizzcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 189, MF= 8, MT=457  
TOTAL ENERGY RELEASE SUMUP FAILURE  
WHOLE= 4.64230E+06 SUM= 4.64158E+06  
SEQUENCE NUMBER 1

BETA MULTIPLICITY SUMUP FAILURE

56
WHOLE= 1.00000E+00  SUM= 9.99900E-01
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.24167E+06  SUM= 1.23704E+06

---

dec-013_A1_029.endf

• Passed All Checks!

---

dec-013_A1_030.endf

• Passed All Checks!

---

dec-013_A1_031.endf

• Passed All Checks!

---

dec-013_A1_032.endf

• Passed All Checks!

---

dec-013_A1_033.endf

• Passed All Checks!

---

dec-013_A1_034.endf

• Fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 194, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

---

dec-013_A1_035.endf

• Fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 195, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

---

• Fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 196, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 197, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 198, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 199, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 200, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 201, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 202, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  
   SEQUENCE NUMBER 5

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 203, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  
   SEQUENCE NUMBER 6

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 204, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID  
   NEAR SEQUENCE NUMBER 6
   NO DECAY SPECTRA GIVEN  
   SEQUENCE NUMBER 6

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 204, MF= 1, MT=451
   Z NOT IN RANGE 1.00000E+00 TO 1.20000E+01  
   SEQUENCE NUMBER 1

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 205, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID  
   NEAR SEQUENCE NUMBER 6
   7 IN RTYPE = 2.77000E+00 IS INVALID  
   NEAR SEQUENCE NUMBER 7
   7 IN RTYPE = 2.77000E+00 IS INVALID  
   NEAR SEQUENCE NUMBER 7
   NO DECAY SPECTRA GIVEN  
   SEQUENCE NUMBER 7
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF
convention. So, MAT numbers are messed up as well as ZAs one computes from them.

    ERROR(S) FOUND IN MAT= 205, MF= 1, MT=451
    Z NOT IN RANGE  1.00000E+00 TO  1.30000E+01 SEQUENCE NUMBER  1

•  *fizcon*
  Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT= 206, MF= 8, MT=457
    7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER  6
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER  6

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF
convention. So, MAT numbers are messed up as well as ZAs one computes from them.

    ERROR(S) FOUND IN MAT= 206, MF= 1, MT=451
    Z NOT IN RANGE  1.00000E+00 TO  1.30000E+01 SEQUENCE NUMBER  1

•  *fizcon*
  Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT= 207, MF= 8, MT=457
    7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER  6
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER  6

•  Passed All Checks!

•  *fizcon*
  Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT= 209, MF= 8, MT=457
    E.C. AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 1.71663E+06 SUM= 1.71087E+06

•  *fizcon*
• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ```
     ERROR(S) FOUND IN MAT= 210, MF= 8, MT=457
     BRANCHING RATIO SUMUP FAILURE
     WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER  4
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
     ```

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ```
     ERROR(S) FOUND IN MAT= 211, MF= 8, MT=457
     BRANCHING RATIO SUMUP FAILURE
     WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER  4
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
     ```

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ```
     ERROR(S) FOUND IN MAT= 212, MF= 8, MT=457
     BRANCHING RATIO SUMUP FAILURE
     WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER  4
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
     ```

• Passed All Checks!

• **fizcon** Errors:

  1. Energies released in decay not adding up!

     ```
     ERROR(S) FOUND IN MAT= 214, MF= 8, MT=457
     BETA AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 6.84300E+04  SUM= 6.84048E+04
     ```
• Passed All Checks!

---------- dec-014_Si_034.endf ----------

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 216, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

---------- dec-014_Si_035.endf ----------

• Passed All Checks!

---------- dec-014_Si_036.endf ----------

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 218, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 6

---------- dec-014_Si_037.endf ----------

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 219, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 6

---------- dec-014_Si_038.endf ----------

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 220, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 6

---------- dec-014_Si_039.endf ----------

• fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=221, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

   dec-014_Si_040.endf

* fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=222, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

   dec-014_Si_041.endf

* fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=223, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

   dec-014_Si_042.endf

* fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=224, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

   dec-014_Si_043.endf

* fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=225, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

   dec-014_Si_044.endf

* fizcon Non-errors:

63
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 226, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6
```

```
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
```

```
ERROR(S) FOUND IN MAT= 227, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6
```

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 227, MF= 1, MT=451
Z NOT IN RANGE  1.00000E+00 TO  1.30000E+01  SEQUENCE NUMBER  1
```

```
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
```

```
ERROR(S) FOUND IN MAT= 228, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 228, MF= 1, MT=451
Z NOT IN RANGE  1.00000E+00 TO  1.40000E+01  SEQUENCE NUMBER  1
```

```
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
```

```
ERROR(S) FOUND IN MAT= 229, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 229, MF= 1, MT=451
  Z NOT IN RANGE  1.00000E+00 TO  1.40000E+01 SEQUENCE NUMBER  1
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 230, MF= 8, MT=457
  7 IN RTYPE =  2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER  6
  NO DECAY SPECTRA GIVEN SEQUENCE NUMBER  6
```

• **fizcon** Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT= 231, MF= 8, MT=457
  7 IN RTYPE =  2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER  7
  E(DISCRETE) > Q  E=  4.69000E+05  Q=  0.00000E+00 SEQUENCE NUMBER  157
  E(DISCRETE) > Q  E=  6.79000E+05  Q=  0.00000E+00 SEQUENCE NUMBER  159
```

• **fizcon** Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT= 232, MF= 8, MT=457
  E.C. AVERAGE ENERGY SUMUP FAILURE
  WHOLE=  1.77087E+06  SUM=  1.76416E+06
```

• **fizcon** Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT= 233, MF= 8, MT=457
  E.C. AVERAGE ENERGY SUMUP FAILURE
  WHOLE=  1.43850E+06  SUM=  1.43412E+06
```

65
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT= 234, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
   ```

• **fizcon** Errors:

1. Energies released in decay not adding up!

   ```
   ERROR(S) FOUND IN MAT= 235, MF= 8, MT=457
   BETA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 6.94900E+05 SUM= 6.92953E+05
   ```

• **Passed All Checks!**

• **Passed All Checks!**

• **fizcon** Errors:

1. Energies released in decay not adding up!

   ```
   ERROR(S) FOUND IN MAT= 238, MF= 8, MT=457
   BETA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 1.02250E+06 SUM= 1.01885E+06
   ```

• **Passed All Checks!**

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 240, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

---dec-015_P_038.endf---

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 241, MF= 8, MT=457
  NEGATIVE SPIN NOT ALLOWED            SEQUENCE NUMBER  4
  SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL SEQUENCE NUMBER  4
  PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER  4
  NO DECAY SPECTRA GIVEN               SEQUENCE NUMBER  6

---dec-015_P_039.endf---

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 242, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN                SEQUENCE NUMBER  6

---dec-015_P_040.endf---

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 243, MF= 8, MT=457
  NEGATIVE SPIN NOT ALLOWED            SEQUENCE NUMBER  4
  SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL SEQUENCE NUMBER  4
  PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER  4
  NO DECAY SPECTRA GIVEN               SEQUENCE NUMBER  6

---dec-015_P_041.endf---

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 244, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN                SEQUENCE NUMBER  6
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 245, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 246, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 247, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 248, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 249, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

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• fiscon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 250, MF= 8, MT=457
   7 IN RTYPE = 7.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 5
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 250, MF= 1, MT=451
   Z NOT IN RANGE 1.00000E+00 TO 1.40000E+01 SEQUENCE NUMBER 1

• fiscon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 251, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
   7 IN RTYPE = 2.77000E+00 IS INVALID NEAR SEQUENCE NUMBER 7
   7 IN RTYPE = 2.77000E+00 IS INVALID NEAR SEQUENCE NUMBER 7
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 251, MF= 1, MT=451
   Z NOT IN RANGE 1.00000E+00 TO 1.50000E+01 SEQUENCE NUMBER 1

• fiscon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 252, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.
ERROR(S) FOUND IN MAT= 252, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 1.50000E+01 SEQUENCE NUMBER 1

• fizzcon
  Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 253, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• Passed All Checks!

ERROR(S) FOUND IN MAT= 255, MF= 8, MT=457
E.C. AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.99637E+06 SUM= 1.98943E+06

• fizzcon
  Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 256, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizzcon
  Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 257, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
 NO DECAY SPECTRA GIVEN
 SEQUENCE NUMBER 4
 SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 258, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
 NO DECAY SPECTRA GIVEN
 SEQUENCE NUMBER 4
 SEQUENCE NUMBER 5

• Passed All Checks!

ERROR(S) FOUND IN MAT= 260, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
 NO DECAY SPECTRA GIVEN
 SEQUENCE NUMBER 4
 SEQUENCE NUMBER 5

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

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• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=265, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

   dec-016_S_042.endf

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=266, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

   dec-016_S_043.endf

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=267, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

   dec-016_S_044.endf

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=268, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

   dec-016_S_045.endf

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=269, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

   dec-016_S_046.endf
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT= 270, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT= 271, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT= 272, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT= 273, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```plaintext
ERROR(S) FOUND IN MAT= 273, MF= 1, MT=451
Z NOT IN RANGE  1.00000E+00 TO  1.50000E+01
SEQUENCE NUMBER 1
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 274, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

```
ERROR(S) FOUND IN MAT= 274, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 1.60000E+01 SEQUENCE NUMBER 1
```

```
------------------dec-017_Cl_030.endf------------------

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 275, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

```
ERROR(S) FOUND IN MAT= 275, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 1.60000E+01 SEQUENCE NUMBER 1
```

```
------------------dec-017_Cl_031.endf------------------

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 276, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6
```

```
------------------dec-017_Cl_032.endf------------------

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 277, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 7
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7
```

```
------------------dec-017_Cl_033.endf------------------
```
• **fizcon Errors:**

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT= 278, MF= 8, MT=457  
     E.C. AVERAGE ENERGY SUMUP FAILURE  
     WHOLE= 2.08212E+06 SUM= 2.07485E+06

     dec-017_Cl_034.endf

• **fizcon Errors:**

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT= 279, MF= 8, MT=457  
     E.C. AVERAGE ENERGY SUMUP FAILURE  
     WHOLE= 2.05039E+06 SUM= 2.04328E+06

     dec-017_Cl_034m1.endf

• **Passed All Checks!**

     dec-017_Cl_035.endf

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT= 281, MF= 8, MT=457  
     BRANCHING RATIO SUMUP FAILURE  
     WHOLE= 1.00000E+00 SUM= 0.00000E+00  
     SEQUENCE NUMBER 4  
     NO DECAY SPECTRA GIVEN  
     SEQUENCE NUMBER 5

     dec-017_Cl_036.endf

• **fizcon Errors:**

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT= 282, MF= 8, MT=457  
     BETA AVERAGE ENERGY SUMUP FAILURE  
     WHOLE= 2.97427E+05 SUM= 2.46223E+05

     dec-017_Cl_037.endf

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 283, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

__________________________dec-017_Cl_038.endf__________________________
• Passed All Checks!

__________________________dec-017_Cl_038m1.endf__________________________
• Passed All Checks!

__________________________dec-017_Cl_039.endf__________________________
• Passed All Checks!

__________________________dec-017_Cl_040.endf__________________________
• Passed All Checks!

__________________________dec-017_Cl_041.endf__________________________
• Passed All Checks!

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.
     ERROR(S) FOUND IN MAT= 288, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

__________________________dec-017_Cl_042.endf__________________________
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.
     ERROR(S) FOUND IN MAT= 289, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

__________________________dec-017_Cl_043.endf__________________________
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.
     ERROR(S) FOUND IN MAT= 290, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT= 291, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT= 292, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT= 293, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT= 294, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT= 295, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 296, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

ERROR(S) FOUND IN MAT= 297, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

ERROR(S) FOUND IN MAT= 298, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 299, MF= 1, MT=451
   Z NOT IN RANGE  1.00000E+00 TO  1.60000E+01 SEQUENCE NUMBER 1

ERROR(S) FOUND IN MAT= 299, MF= 1, MT=451
Z NOT IN RANGE  1.00000E+00 TO  1.60000E+01 SEQUENCE NUMBER 1
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 300, MF= 8, MT=457
  7 IN RTYPE =  2.70000E+00 IS INVALID  NEAR SEQUENCE NUMBER  6
  7 IN RTYPE =  2.77000E+00 IS INVALID  NEAR SEQUENCE NUMBER  7
  7 IN RTYPE =  2.77000E+00 IS INVALID  NEAR SEQUENCE NUMBER  7
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  7
```

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 300, MF= 1, MT=451
  Z NOT IN RANGE  1.00000E+00 TO  1.70000E+01  SEQUENCE NUMBER  1
```

- **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 301, MF= 8, MT=457
  7 IN RTYPE =  2.70000E+00 IS INVALID  NEAR SEQUENCE NUMBER  6
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6
```

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 301, MF= 1, MT=451
  Z NOT IN RANGE  1.00000E+00 TO  1.70000E+01  SEQUENCE NUMBER  1
```

- **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 302, MF= 8, MT=457
  7 IN RTYPE =  2.70000E+00 IS INVALID  NEAR SEQUENCE NUMBER  6
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6
```

- **Passed All Checks!**

```
```

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• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 304, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 5.96530E+06 SUM= 5.95890E+06 SEQUENCE NUMBER 1
E.C. MULTIPLICITY SUMUP FAILURE
    WHOLE= 1.00000E+00 SUM= 9.98547E-01
E.C. AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 2.26583E+06 SUM= 2.25756E+06

---
dec-018_Ar_036.endf
---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 305, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
    WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---
dec-018_Ar_037.endf
---

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 306, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 8.13500E+05 SUM= 8.13091E+05 SEQUENCE NUMBER 1

---
dec-018_Ar_038.endf
---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 307, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
    WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---
dec-018_Ar_039.endf
---

• Passed All Checks!

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• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ```
    ERROR(S) FOUND IN MAT= 309, MF= 8, MT=457
    BRANCHING RATIO SUMUP FAILURE
    WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
    ```

• **fizcon** Errors:

  1. Energies released in decay not adding up!

    ```
    ERROR(S) FOUND IN MAT= 310, MF= 8, MT=457
    BETA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 4.63923E+05 SUM= 4.62952E+05
    ```

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 317, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

___________________________________________
dec-018_Ar_049.endf

• fizcon  Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 318, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

___________________________________________
dec-018_Ar_050.endf

• fizcon  Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 319, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

___________________________________________
dec-018_Ar_051.endf

• fizcon  Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 320, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

___________________________________________
dec-018_Ar_052.endf

• fizcon  Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 321, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

___________________________________________
dec-018_Ar_053.endf

• fizcon  Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 322, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

•  dec-019_K_032.endf

  •  fizcon  Non-errors:
    1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
       this even if we can’t evaluate it.

       ERROR(S) FOUND IN MAT= 323, MF= 8, MT=457
       NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

    2. The decay library is so big that we ran out of MAT numbers, when following the ENDF
       convention. So, MAT numbers are messed up as well as ZAs one computes from them.

       ERROR(S) FOUND IN MAT= 323, MF= 1, MT=451
       Z NOT IN RANGE  1.00000E+00 TO  1.70000E+01  SEQUENCE NUMBER  1

•  dec-019_K_033.endf

  •  fizcon  Non-errors:
    1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
       this even if we can’t evaluate it.

       ERROR(S) FOUND IN MAT= 324, MF= 8, MT=457
       NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

    2. The decay library is so big that we ran out of MAT numbers, when following the ENDF
       convention. So, MAT numbers are messed up as well as ZAs one computes from them.

       ERROR(S) FOUND IN MAT= 324, MF= 1, MT=451
       Z NOT IN RANGE  1.00000E+00 TO  1.80000E+01  SEQUENCE NUMBER  1

•  dec-019_K_034.endf

  •  fizcon  Non-errors:
    1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
       this even if we can’t evaluate it.

       ERROR(S) FOUND IN MAT= 325, MF= 8, MT=457
       NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

    2. The decay library is so big that we ran out of MAT numbers, when following the ENDF
       convention. So, MAT numbers are messed up as well as ZAs one computes from them.
ERROR(S) FOUND IN MAT= 325, MF= 1, MT=451
Z NOT IN RANGE  1.00000E+00 TO  1.80000E+01 SEQUENCE NUMBER  1

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 326, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER  6
E(DISCRETE) > Q E= 1.42500E+06 Q= 0.00000E+00 SEQUENCE NUMBER  72
E(DISCRETE) > Q E= 1.55500E+06 Q= 0.00000E+00 SEQUENCE NUMBER  74
...

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 327, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER  7
E(DISCRETE) > Q E= 5.01000E+05 Q= 0.00000E+00 SEQUENCE NUMBER  158
E(DISCRETE) > Q E= 6.93000E+05 Q= 0.00000E+00 SEQUENCE NUMBER  160
...

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 329, MF= 8, MT=457
E.C. AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.20571E+06 SUM= 1.20283E+06

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 330, MF= 8, MT=457
E.C. AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.32110E+06 SUM= 2.31274E+06

Passed All Checks!
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

```
ERROR(S) FOUND IN MAT= 331, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT= 332, MF= 8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 4.99331E+05 SUM= 4.52026E+05
```

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

```
ERROR(S) FOUND IN MAT= 333, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT= 334, MF= 8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.43054E+06 SUM= 1.42532E+06
```

1. Passed All Checks!
• Passed All Checks!

__________________________dec-019_K_045.endf__________________________

• Passed All Checks!

__________________________dec-019_K_046.endf__________________________

• Passed All Checks!

__________________________dec-019_K_047.endf__________________________

• Passed All Checks!

__________________________dec-019_K_048.endf__________________________

• fizcon Errors:

1. Beta spectrum integral too small

   ERROR(S) FOUND IN MAT= 340, MF= 8, MT=457
   FT VALUE TOO SMALL
   FT= 8.43842E+04  E= 1.05800E+06  I= 40  SEQUENCE NUMBER 108
   FT VALUE TOO SMALL
   FT= 1.34176E+05  E= 1.47600E+06  I= 44  SEQUENCE NUMBER 116
   FT VALUE TOO SMALL
   FT= 4.03630E+05  E= 1.82100E+06  I= 47  SEQUENCE NUMBER 122

__________________________dec-019_K_049.endf__________________________

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT= 341, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

__________________________dec-019_K_050.endf__________________________

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT= 342, MF= 8, MT=457
   NEGATIVE SPIN NOT ALLOWED
   SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 4

   SEQUENCE NUMBER 4
   SEQUENCE NUMBER 4
   SEQUENCE NUMBER 6

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• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 343, MF= 8, MT=457
   - NEGATIVE SPIN NOT ALLOWED
   - SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
   - PARITY= 0.00000E+00 NOT +1.0 OR -1.0
   - NO DECAY SPECTRA GIVEN

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 344, MF= 8, MT=457
   - NO DECAY SPECTRA GIVEN

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 345, MF= 8, MT=457
   - NO DECAY SPECTRA GIVEN

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 346, MF= 8, MT=457
   - NO DECAY SPECTRA GIVEN

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 347, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

dec-020_Ca_034.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 348, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 348, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 1.80000E+01
SEQUENCE NUMBER 1

dec-020_Ca_035.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 349, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID
7 IN RTYPE = 2.77000E+00 IS INVALID
7 IN RTYPE = 2.77000E+00 IS INVALID
NO DECAY SPECTRA GIVEN
SEQUENTIAL NUMBER 6

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 349, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 1.90000E+01
SEQUENCE NUMBER 1

dec-020_Ca_036.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 350, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID
NO DECAY SPECTRA GIVEN
SEQUENTIAL NUMBER 6
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 350, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 1.90000E+01 SEQUENCE NUMBER 1
```

* dec-020_Ca_037.endf

- `fizcon` Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

```
ERROR(S) FOUND IN MAT= 351, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6
```

* dec-020_Ca_038.endf

- Passed All Checks!

* dec-020_Ca_039.endf

- `fizcon` Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT= 353, MF= 8, MT=457
E.C. AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.56027E+06 SUM= 2.55108E+06
```

* dec-020_Ca_040.endf

- `fizcon` Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

```
ERROR(S) FOUND IN MAT= 354, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

* dec-020_Ca_041.endf

- Passed All Checks!

* dec-020_Ca_042.endf

- `fizcon` Non-errors:

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1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT= 356, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

--- dec-020_Ca_043.endf ---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT= 357, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

--- dec-020_Ca_044.endf ---

• fiscon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT= 358, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

--- dec-020_Ca_045.endf ---

• Passed All Checks!

--- dec-020_Ca_046.endf ---

• fiscon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT= 360, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

--- dec-020_Ca_047.endf ---

• Passed All Checks!
• **fizcon** Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT= 362, MF= 8, MT=457
  T12 NOT IN RANGE  0.00000E+00 TO  1.00000E+24  SEQUENCE NUMBER  3
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6
```

• **fizcon** Errors:
  1. Energies released in decay not adding up!

```plaintext
ERROR(S) FOUND IN MAT= 363, MF= 8, MT=457
  BETA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 8.63635E+05  SUM= 8.60624E+05
```

• Passed All Checks!

• Passed All Checks!

• **fizcon** Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT= 366, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6
```

• **fizcon** Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT= 367, MF= 8, MT=457
  SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL  SEQUENCE NUMBER  4
  PARITY= 0.00000E+00  NOT +1.0 OR -1.0  SEQUENCE NUMBER  4
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6
```
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT= 368, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT= 369, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT= 370, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT= 371, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT= 372, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 372, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 1.90000E+01 SEQUENCE NUMBER 1

-- dec-021_Sc_037.endf --

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 373, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 373, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 2.00000E+01 SEQUENCE NUMBER 1

-- dec-021_Sc_038.endf --

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 374, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 374, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 2.00000E+01 SEQUENCE NUMBER 1

-- dec-021_Sc_039.endf --

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 375, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

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• Passed All Checks!

• fizcon Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT= 377, MF= 8, MT=457
     E.C. AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 2.54132E+06 SUM= 2.53237E+06

• Passed All Checks!

• fizcon Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT= 378, MF= 8, MT=457
     E.C. AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 2.50771E+06 SUM= 2.49892E+06

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT= 383, MF= 8, MT=457
     BRANCHING RATIO SUMUP FAILURE
     WHOLE= 1.00000E+00 SUM= 0.00000E+00
     NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 4
     SEQUENCE NUMBER 5
Passed All Checks!

fizcon Errors:
1. Energies released in decay not adding up!
   ERROR(S) FOUND IN MAT= 389, MF= 8, MT=457
   BETA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 8.23654E+05  SUM= 8.20806E+05

Passed All Checks!

fizcon Errors:
1. Energies released in decay not adding up!
   ERROR(S) FOUND IN MAT= 391, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 2.56895E+05  SUM= 2.51242E+05  SEQUENCE NUMBER 1

Passed All Checks!

Passed All Checks!
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 394, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

--------------------------------------------------
dec-021_Sc_054.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 395, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
PARITY= 0.00000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN

--------------------------------------------------
dec-021_Sc_055.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 396, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

--------------------------------------------------
dec-021_Sc_056.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 397, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
PARITY= 0.00000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN

--------------------------------------------------
dec-021_Sc_057.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 398, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

| SEQUENCE NUMBER | 5 |

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT= 399, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

| SEQUENCE NUMBER | 5 |

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT= 400, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

| SEQUENCE NUMBER | 6 |

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT= 401, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

| SEQUENCE NUMBER | 5 |

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT= 402, MF= 8, MT=457

| NEAR SEQUENCE NUMBER | 5 |
| SEQUENCE NUMBER | 5 |

7 IN RTYPE = 7.70000E+00 IS INVALID

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 402, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 2.00000E+01

| SEQUENCE NUMBER | 1 |
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 403, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 5
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 403, MF= 1, MT=451
   Z NOT IN RANGE 1.00000E+00 TO 2.10000E+01 SEQUENCE NUMBER 1

Pass All Checks!
Passed All Checks!

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 410, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 411, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 412, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 413, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 4
   SEQUENCE NUMBER 5

---

dec-022_Ti_050.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 414, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 4
   SEQUENCE NUMBER 5

---

dec-022_Ti_051.endf

• Passed All Checks!

---

dec-022_Ti_052.endf

• Passed All Checks!

---

dec-022_Ti_053.endf

• Passed All Checks!

---

dec-022_Ti_054.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 418, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

---

dec-022_Ti_055.endf

• Passed All Checks!

---

dec-022_Ti_056.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 420, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

-------------------dec-022_Ti_057.endf-------------------

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 421, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

-------------------dec-022_Ti_058.endf-------------------

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 422, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

-------------------dec-022_Ti_059.endf-------------------

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 423, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

-------------------dec-022_Ti_060.endf-------------------

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 424, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

-------------------dec-022_Ti_061.endf-------------------

• fizcon Non-error:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

101
ERROR(S) FOUND IN MAT= 425, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

ERROR(S) FOUND IN MAT= 426, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

ERROR(S) FOUND IN MAT= 427, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

ERROR(S) FOUND IN MAT= 428, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

ERROR(S) FOUND IN MAT= 429, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• *fizcon* Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 426, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

ERROR(S) FOUND IN MAT= 427, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

ERROR(S) FOUND IN MAT= 428, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

ERROR(S) FOUND IN MAT= 429, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

• *fizcon* Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 428, MF= 1, MT=451
Z NOT IN RANGE  1.00000E+00 TO  2.10000E+01

ERROR(S) FOUND IN MAT= 429, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

ERROR(S) FOUND IN MAT= 429, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• *fizcon* Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 429, MF= 1, MT=451
Z NOT IN RANGE  1.00000E+00 TO 2.20000E+01  SEQUENCE NUMBER 1
```

```
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
```

```
ERROR(S) FOUND IN MAT= 430, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5
```

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 430, MF= 1, MT=451
Z NOT IN RANGE  1.00000E+00 TO 2.20000E+01  SEQUENCE NUMBER 1
```

```
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
```

```
ERROR(S) FOUND IN MAT= 431, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5
```

```
• Passed All Checks!
```

```
• Passed All Checks!
```

```
• Passed All Checks!
```

```
• Passed All Checks!
```

```
• fizcon Errors:
  1. Energies released in decay not adding up!
```
ERROR(S) FOUND IN MAT= 435, MF= 8, MT=457
E.C. AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.81471E+06  SUM= 2.80472E+06

Passed All Checks!

fizcon Errors:
1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT= 437, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 1.91325E+02  E= 1.13624E+06  I= 19

Passed All Checks!

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 438, MF= 8, MT=457
E.C. MULTIPLICITY SUMUP FAILURE
WHOLE= 1.00000E+00  SUM= 1.00651E+00

Passed All Checks!

fizcon Non-errors:
1. The halflife given in the file really is correct, despite what FIZCON says

ERROR(S) FOUND IN MAT= 440, MF= 8, MT=457
T12 NOT IN RANGE  0.00000E+00 TO  1.00000E+24

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 441, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN

---

fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 442, MF= 8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.06863E+06 SUM= 1.06435E+06

---

Passed All Checks!

---

Passed All Checks!

---

Passed All Checks!

---

Passed All Checks!

---

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 446, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 447, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

---

fizcon Non-errors:

105
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 448, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

--- dec-023_V_059.endf ---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 449, MF= 8, MT=457
     NEGATIVE SPIN NOT ALLOWED
     SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
     PARITY = 0.000000+00 NOT +1.0 OR -1.0
     NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 4
   SEQUENCE NUMBER 4
   SEQUENCE NUMBER 4

--- dec-023_V_060.endf ---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 450, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

--- dec-023_V_061.endf ---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 451, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

--- dec-023_V_062.endf ---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 452, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

106
fizcon
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 453, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

fizcon
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 454, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

fizcon
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 455, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

fizcon
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 456, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 456, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 2.20000E+01
SEQUENCE NUMBER 1

fizcon
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT= 457, MF= 8, MT=457
  7 IN RTYPE = 2.70000E+00 IS INVALID  NEAR SEQUENCE NUMBER 6
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 6
```

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```plaintext
ERROR(S) FOUND IN MAT= 457, MF= 1, MT=451
  Z NOT IN RANGE 1.00000E+00 TO 2.30000E+01  SEQUENCE NUMBER 1
```

---

**fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT= 458, MF= 8, MT=457
  7 IN RTYPE = 2.70000E+00 IS INVALID  NEAR SEQUENCE NUMBER 6
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 6
```

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```plaintext
ERROR(S) FOUND IN MAT= 458, MF= 1, MT=451
  Z NOT IN RANGE 1.00000E+00 TO 2.30000E+01  SEQUENCE NUMBER 1
```

---

**fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT= 459, MF= 8, MT=457
  7 IN RTYPE = 2.70000E+00 IS INVALID  NEAR SEQUENCE NUMBER 6
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 6
```

---

**fizcon Errors:**

1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT= 460, MF= 8, MT=457
E.C. AVERAGE ENERGY SUMUP FAILURE
WHOLE= 3.08324E+06 SUM= 3.07215E+06

Passed All Checks!

dec-024_Cr_047.endf

Passed All Checks!

dec-024_Cr_048.endf

Passed All Checks!

dec-024_Cr_049.endf

Passed All Checks!

dec-024_Cr_050.endf

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 464, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
NO DECAY SPECTRA GIVEN

Passed All Checks!

dec-024_Cr_051.endf

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 466, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
NO DECAY SPECTRA GIVEN

Passed All Checks!

dec-024_Cr_052.endf

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

Passed All Checks!

dec-024_Cr_053.endf

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 467, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 4
SEQUENCE NUMBER 5

• fifcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 468, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 4
SEQUENCE NUMBER 5

• fifcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 469, MF= 8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 5.95700E+05 SUM= 5.93942E+05

• fifcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 470, MF= 8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.10099E+06 SUM= 1.09647E+06

• Passed All Checks!

• fifcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 472, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

**fizcon**

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 473, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

**fizcon**

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 474, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

**fizcon**

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 475, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

**fizcon**

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 476, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

**fizcon**

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 477, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 478, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 479, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 480, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 481, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

112
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 482, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 2.30000E+01 SEQUENCE NUMBER 1

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 483, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 2.40000E+01 SEQUENCE NUMBER 1

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 483, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 2.40000E+01 SEQUENCE NUMBER 1

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 485, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

_________________________dec-025_Mn_048.endf_________________________

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 486, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 7
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

_________________________dec-025_Mn_049.endf_________________________

• Passed All Checks!

_________________________dec-025_Mn_050.endf_________________________

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 488, MF= 8, MT=457
E.C. AVERAGE ENERGY SUMUP FAILURE
WHOLE= 3.09976E+06 SUM= 3.08873E+06

_________________________dec-025_Mn_050m1.endf_________________________

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 489, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

_________________________dec-025_Mn_051.endf_________________________

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 490, MF= 8, MT=457
E.C. AVERAGE ENERGY SUMUP FAILURE
WHOLE= 9.34723E+05 SUM= 9.32952E+05
Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

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Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 502, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN                  SEQUENCE NUMBER  6

   __dec-025_Mn_061.endf____________________
   ● Passed All Checks!

   __dec-025_Mn_062.endf____________________
   ● Passed All Checks!

   __dec-025_Mn_062m1.endf___________________

   ● fizcon Non-errors:
   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

      ERROR(S) FOUND IN MAT= 505, MF= 8, MT=457
      NO DECAY SPECTRA GIVEN                  SEQUENCE NUMBER  5

   __dec-025_Mn_063.endf____________________

   ● fizcon Non-errors:
   2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

      ERROR(S) FOUND IN MAT= 505, MF= 1, MT=451
      ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE  SEQUENCE NUMBER  2

   __dec-025_Mn_064.endf____________________

   ● fizcon Non-errors:
   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

      ERROR(S) FOUND IN MAT= 506, MF= 8, MT=457
      NO DECAY SPECTRA GIVEN                  SEQUENCE NUMBER  5

   __dec-025_Mn_064.endf____________________

   ● fizcon Non-errors:
   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

      ERROR(S) FOUND IN MAT= 507, MF= 8, MT=457
      NO DECAY SPECTRA GIVEN                  SEQUENCE NUMBER  6
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 508, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 6

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 509, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 6

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 510, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 511, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 1.37413E+07 SUM= 8.37926E+06

SEQUENCE NUMBER 1

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 512, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 513, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 5
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 513, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 2.40000E+01 SEQUENCE NUMBER 1

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 514, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 514, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 2.40000E+01 SEQUENCE NUMBER 1

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 515, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 515, MF= 1, MT=451
Z NOT IN RANGE  1.00000E+00 TO  2.50000E+01  SEQUENCE NUMBER 1
```

```
• dec-026_Fe_048.endf
```

- **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 516, MF= 8, MT=457
  7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN NEAR SEQUENCE NUMBER 6
```

```
• dec-026_Fe_049.endf
```

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 516, MF= 1, MT=451
Z NOT IN RANGE  1.00000E+00 TO  2.50000E+01  SEQUENCE NUMBER 1
```

```
• dec-026_Fe_050.endf
```

- **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 517, MF= 8, MT=457
  7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN NEAR SEQUENCE NUMBER 6
```

```
• dec-026_Fe_051.endf
```

- **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 518, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

```
• dec-026_Fe_052.endf
```

```
• Passed All Checks!
```

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Passed All Checks!

---dec-026_Fe_052m1.endf---

**fizcon** Non-errors:

1. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

```
ERROR(S) FOUND IN MAT= 521, MF= 1, MT=451
ELIS NOT IN RANGE  0.00000E+00 TO  3.00000E+06  SEQUENCE NUMBER  3
```

Passed All Checks!

---dec-026_Fe_053.endf---

**fizcon** Non-errors:

1. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

```
ERROR(S) FOUND IN MAT= 523, MF= 1, MT=451
ELIS NOT IN RANGE  0.00000E+00 TO  3.00000E+06  SEQUENCE NUMBER  3
```

Passed All Checks!

---dec-026_Fe_053m1.endf---

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 524, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER  4
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

Passed All Checks!

---dec-026_Fe_054.endf---

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 524, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER  4
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

Passed All Checks!

---dec-026_Fe_055.endf---

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 526, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
  WHOLE= 1.00000E+00 SUM= 0.00000E+00  SEQUENCE NUMBER  4
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 527, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
  WHOLE= 1.00000E+00 SUM= 0.00000E+00  SEQUENCE NUMBER  4
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!
Passed All Checks!

• dec-026_Fe_065.endf

Passed All Checks!

• dec-026_Fe_065m1.endf

Passed All Checks!

• dec-026_Fe_066.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 537, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 538, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 539, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 540, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

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• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT= 541, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN  
     SEQUENCE NUMBER  5

     --------------------------dec-026_Fe_071.endf --------------------------

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT= 542, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN  
     SEQUENCE NUMBER  5

     --------------------------dec-026_Fe_072.endf --------------------------

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT= 543, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN  
     SEQUENCE NUMBER  6

     --------------------------dec-027_Co_049.endf --------------------------

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT= 544, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN  
     SEQUENCE NUMBER  6

  2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

     ERROR(S) FOUND IN MAT= 544, MF= 1, MT=451
     Z NOT IN RANGE  1.00000E+00 TO  2.60000E+01  
     SEQUENCE NUMBER  1

     --------------------------dec-027_Co_050.endf --------------------------

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 545, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 545, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 2.60000E+01 SEQUENCE NUMBER 1

dec-027_Co_051.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 546, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

dec-027_Co_052.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 547, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

dec-027_Co_053.endf

• Passed All Checks!

dec-027_Co_053m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 549, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT= 549, MF= 1, MT=451
ELIS NOT IN RANGE 0.00000E+00 TO 3.00000E+06 SEQUENCE NUMBER 3
• **fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT= 550, MF= 8, MT=457
   E.C. AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 3.39987E+06 SUM= 3.38779E+06

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 557, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00
   NO DECAY SPECTRA GIVEN

• Passed All Checks!

• Passed All Checks!
Passed All Checks!

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 562, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress.
ERROR(S) FOUND IN MAT= 569, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

================================ dec-027_Co_069.endf ==================================

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
     ERROR(S) FOUND IN MAT= 570, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

================================ dec-027_Co_070.endf ==================================

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
     ERROR(S) FOUND IN MAT= 571, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

================================ dec-027_Co_070m1.endf ==================================

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
     ERROR(S) FOUND IN MAT= 572, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

  2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress
     ERROR(S) FOUND IN MAT= 572, MF= 1, MT=451
     ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

================================ dec-027_Co_071.endf ==================================

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
     ERROR(S) FOUND IN MAT= 573, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6
• \texttt{fizcon} Errors:

1. Energies released in decay not adding up!

\begin{verbatim}
ERROR(S) FOUND IN MAT= 574, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 1.41253E+07 SUM= 8.71832E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE
\end{verbatim}

...
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT= 578, MF= 8, MT=457
   7 IN RTYPE = 7.70000E+00 IS INVALID       NEAR SEQUENCE NUMBER  6
   NO DECAY SPECTRA GIVEN                   SEQUENCE NUMBER    6
   ```

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ```
   ERROR(S) FOUND IN MAT= 579, MF= 1, MT=451
   Z NOT IN RANGE  1.00000E+00 TO  2.50000E+01  SEQUENCE NUMBER  1
   ```

---

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT= 579, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID       NEAR SEQUENCE NUMBER  5
   NO DECAY SPECTRA GIVEN                   SEQUENCE NUMBER    6
   ```

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ```
   ERROR(S) FOUND IN MAT= 580, MF= 1, MT=451
   Z NOT IN RANGE  1.00000E+00 TO  2.60000E+01  SEQUENCE NUMBER  1
   ```

---

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT= 580, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID       NEAR SEQUENCE NUMBER  6
   NO DECAY SPECTRA GIVEN                   SEQUENCE NUMBER    6
   ```

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ```
   ERROR(S) FOUND IN MAT= 580, MF= 1, MT=451
   Z NOT IN RANGE  1.00000E+00 TO  2.60000E+01  SEQUENCE NUMBER  1
   ```

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dec-028_Ni_051.endf

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT= 581, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 581, MF= 1, MT=451
   Z NOT IN RANGE 1.00000E+00 TO 2.70000E+01
   SEQUENCE NUMBER 1

dec-028_Ni_052.endf

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 582, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID
   NEAR SEQUENCE NUMBER 6
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 582, MF= 1, MT=451
   Z NOT IN RANGE 1.00000E+00 TO 2.70000E+01
   SEQUENCE NUMBER 1

dec-028_Ni_053.endf

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 583, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID
   NEAR SEQUENCE NUMBER 6
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

dec-028_Ni_054.endf

• **fizcon** Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=584, MF=8, MT=457
NO DECAY SPECTRA GIVEN

Sequence Number: 5

dec-028_Ni_055.endf

- Passed All Checks!

dec-028_Ni_056.endf

- Passed All Checks!

dec-028_Ni_057.endf

- Passed All Checks!

dec-028_Ni_058.endf

- Non-errors:

fizcon

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=588, MF=8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE=1.00000E+00 SUM=0.00000E+00
NO DECAY SPECTRA GIVEN

Sequence Number: 4

Sequence Number: 5

dec-028_Ni_059.endf

- Passed All Checks!

dec-028_Ni_060.endf

- Non-errors:

fizcon

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=590, MF=8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE=1.00000E+00 SUM=0.00000E+00
NO DECAY SPECTRA GIVEN

Sequence Number: 4

Sequence Number: 5

dec-028_Ni_061.endf

- Non-errors:

fizcon

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 591, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00   SEQUENCE NUMBER  4
NO DECAY SPECTRA GIVEN          SEQUENCE NUMBER  5

----------------------dec-028_Ni_062.endf----------------------

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 592, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00   SEQUENCE NUMBER  4
NO DECAY SPECTRA GIVEN          SEQUENCE NUMBER  5

----------------------dec-028_Ni_063.endf----------------------

• fizcon Errors:

  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 593, MF= 8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.74250E+04 SUM= 1.74314E+04

----------------------dec-028_Ni_064.endf----------------------

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 594, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00   SEQUENCE NUMBER  4
NO DECAY SPECTRA GIVEN          SEQUENCE NUMBER  5

----------------------dec-028_Ni_065.endf----------------------

• Passed All Checks!

----------------------dec-028_Ni_066.endf----------------------

• Passed All Checks!

----------------------dec-028_Ni_067.endf----------------------
• Passed All Checks!

• **fizcon** Non-errors:
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT= 598, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!

• **fizcon** Non-errors:
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT= 600, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• **fizcon** Non-errors:
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT= 601, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• **fizcon** Non-errors:
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT= 602, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• **fizcon** Errors:
  
  1. All probability distributions should be normalized to 1, this one isn’t.
ERROR(S) FOUND IN MAT= 603, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.11050E+00 BEFORE SEQUENCE NUMBER 371
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 5.55718E+06  SUM= 3.44833E+06  SEQUENCE NUMBER 1

...  

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 604, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER 4
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 8.83804E+06  SUM= 6.43908E+06  SEQUENCE NUMBER 1

...  

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 605, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 7.24542E+06  SUM= 4.65589E+06  SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

...  

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 606, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER 4
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 9.60790E+06  SUM= 6.74379E+06  SEQUENCE NUMBER 1

...  

fizcon Errors:
1. Energies released in decay not adding up!

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ERROR(S) FOUND IN MAT= 607, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 8.26048E+06 SUM= 5.11915E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE
...

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 608, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 8.56513E+06 SUM= 5.57276E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE
...

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 609, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 8.93730E+06 SUM= 5.46572E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE
...

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 610, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

  2. The decay library is so big that we ran out of MAT numbers, when following the ENDF
     convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 610, MF= 1, MT=451
Z NOT IN RANGE 1.00000E+00 TO 2.70000E+01 SEQUENCE NUMBER 1


 dec-028_Ni_078.endf
 dec-029_Cu_052.endf

dec-029_Cu_053.endf
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 611, MF= 8, MT=457  
   NO DECAY SPECTRA GIVEN  
   SEQUENCE NUMBER 6

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 611, MF= 1, MT=451  
   Z NOT IN RANGE 1.00000E+00 TO 2.80000E+01  
   SEQUENCE NUMBER 1

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 612, MF= 8, MT=457  
   NO DECAY SPECTRA GIVEN  
   SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 612, MF= 1, MT=451  
   Z NOT IN RANGE 1.00000E+00 TO 2.80000E+01  
   SEQUENCE NUMBER 1

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 613, MF= 8, MT=457  
   NO DECAY SPECTRA GIVEN  
   SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 614, MF= 8, MT=457  
   NO DECAY SPECTRA GIVEN  
   SEQUENCE NUMBER 5

136
• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• **fizcon Errors:**

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT= 620, MF= 8, MT=457
     E.C. AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 1.29037E+06 SUM= 1.28742E+06

• Passed All Checks!

• Passed All Checks!

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT= 621, MF= 8, MT=457
     BRANCHING RATIO SUMUP FAILURE
     WHOLE= 1.00000E+00 SUM= 0.00000E+00
     NO DECAY SPECTRA GIVEN

• Passed All Checks!

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 623, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
NO DECAY SPECTRA GIVEN

---
dec-029_Cu_066.endf

• *fizcon* Errors:
  1. Energies released in decay not adding up!

---
dec-029_Cu_067.endf

• Passed All Checks!

---
dec-029_Cu_068.endf

• *fizcon* Errors:
  1. Beta spectrum integral too small

---
dec-029_Cu_068m1.endf

• *fizcon* Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

---
dec-029_Cu_069.endf

• Passed All Checks!

---
dec-029_Cu_070.endf

---

138
• Passed All Checks!

---

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT= 630, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 6

---

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT= 631, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 6

---

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT= 632, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 5

---

• **fizcon** Errors:

  1. Beta spectrum integral too small

     ERROR(S) FOUND IN MAT= 633, MF= 8, MT=457
     PARITY= 0.00000E+00 NOT +1.0 OR -1.0
     SEQUENCE NUMBER 4
     FT VALUE TOO SMALL
     SEQUENCE NUMBER 141
     FT= 4.63953E+05 E= 4.70035E+06 I= 65
     SEQUENCE NUMBER 141

---

• **fizcon** Errors:

  1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT= 634, MF= 8, MT=457
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.96087E+01 SUM= 3.14942E+01

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 635, MF= 8, MT=457
E(MAXIMUM) > Q E= 1.52000E+06 Q= 1.51588E+06 SEQUENCE NUMBER 119
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.72873E+02 SUM= 2.80449E+02

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 636, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 7.91724E+06 SUM= 4.74292E+06 SEQUENCE NUMBER 1

...  

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 637, MF= 8, MT=457
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.20556E+04 SUM= 1.23699E+04

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 638, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress.
ERROR(S) FOUND IN MAT= 638, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE  SEQUENCE NUMBER  2

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT= 639, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00388E+00 BEFORE SEQUENCE NUMBER  827
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 9.69367E+06  SUM= 5.89452E+06  SEQUENCE NUMBER  1

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 640, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 1.04776E+07  SUM= 6.89246E+06  SEQUENCE NUMBER  1

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 641, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 9.32245E+06  SUM= 5.54353E+06  SEQUENCE NUMBER  1

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 642, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 1.13280E+07  SUM= 7.30892E+06  SEQUENCE NUMBER  1
• **fizcon** Errors:

1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT= 643, MF= 8, MT=457
    E(MAXIMUM) > Q E= 1.40600E+07 Q= 1.16340E+04 SEQUENCE NUMBER 10
    E(MAXIMUM) > Q E= 1.05800E+07 Q= 1.16340E+04 SEQUENCE NUMBER 483
    E(MAXIMUM) > Q E= 1.14400E+07 Q= 1.16340E+04 SEQUENCE NUMBER 840

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT= 644, MF= 8, MT=457
    7 IN RTYPE = 7.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 5
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

    ERROR(S) FOUND IN MAT= 644, MF= 1, MT=451
    Z NOT IN RANGE 1.00000E+00 TO 2.80000E+01 SEQUENCE NUMBER 1

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT= 645, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

    ERROR(S) FOUND IN MAT= 645, MF= 1, MT=451
    Z NOT IN RANGE 1.00000E+00 TO 2.90000E+01 SEQUENCE NUMBER 1

---

142
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 646, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

   ERROR(S) FOUND IN MAT= 646, MF= 1, MT=451
   Z NOT IN RANGE 1.00000E+00 TO 2.90000E+01
   SEQUENCE NUMBER 1

---

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 647, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID
   NEAR SEQUENCE NUMBER 6
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

---

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 648, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

---

Passed All Checks!

---

Passed All Checks!

---

Passed All Checks!

---

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 652, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

dec-030_Zn_061m2.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 653, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

dec-030_Zn_062.endf

• Passed All Checks!

dec-030_Zn_063.endf

• Passed All Checks!

dec-030_Zn_064.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 656, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
NO DECAY SPECTRA GIVEN

dec-030_Zn_065.endf

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 657, MF= 8, MT=457
E.C. AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.02493E+03 SUM= 2.04034E+03

dec-030_Zn_066.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 658, MF= 8, MT=457  
BRANCHING RATIO SUMUP FAILURE  
WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER  4  
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

• fizcon Non-errors:  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 659, MF= 8, MT=457  
BRANCHING RATIO SUMUP FAILURE  
WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER  4  
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

• fizcon Non-errors:  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 660, MF= 8, MT=457  
BRANCHING RATIO SUMUP FAILURE  
WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER  4  
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

• fizcon Errors:  
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 661, MF= 8, MT=457  
BETA AVERAGE ENERGY SUMUP FAILURE  
WHOLE= 3.21598E+05  SUM= 3.23022E+05

• Passed All Checks!

• fizcon Non-errors:  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=663, MF=8, MT=457
NO DECAY SPECTRA GIVEN

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=668, MF=8, MT=457
NO DECAY SPECTRA GIVEN

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=669, MF=8, MT=457
NO DECAY SPECTRA GIVEN

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

- Passed All Checks!

fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.
ERROR(S) FOUND IN MAT= 670, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00333E+00 BEFORE SEQUENCE NUMBER 167
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 2.29287E+06 SUM= 1.41554E+06 SEQUENCE NUMBER 1

Passed All Checks!

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 674, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

Passed All Checks!

fizcon Errors:
1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT= 676, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
NORMALIZATION CHECK INTEGRAL= 1.00448E+00 BEFORE SEQUENCE NUMBER 570
TOTAL ENERGY RELEASE SUMUP FAILURE

Passed All Checks!

fizcon Errors:
1. Energies released in decay not adding up!


dec-030_Zn_075.endf
dec-030_Zn_076.endf
dec-030_Zn_077.endf
dec-030_Zn_077m1.endf
dec-030_Zn_078.endf
dec-030_Zn_079.endf
dec-030_Zn_080.endf
ERROR(S) FOUND IN MAT= 677, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 7.52758E+06 SUM= 5.30220E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE

• fizzcon Errors:

  1. All probability distributions should be normalized to 1, this one isn’t.

  ERROR(S) FOUND IN MAT= 678, MF= 8, MT=457
  PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
  NORMALIZATION CHECK INTEGRAL= 1.00737E+00 BEFORE SEQUENCE NUMBER 856
  TOTAL ENERGY RELEASE SUMUP FAILURE

• fizzcon Errors:

  1. Energies released in decay not adding up!

  ERROR(S) FOUND IN MAT= 679, MF= 8, MT=457
  TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 9.17289E+06 SUM= 5.35428E+06 SEQUENCE NUMBER 1
  GAMMA AVERAGE ENERGY SUMUP FAILURE

• fizzcon Errors:

  1. Energies released in decay not adding up!

  ERROR(S) FOUND IN MAT= 680, MF= 8, MT=457
  TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 1.21427E+07 SUM= 6.76239E+06 SEQUENCE NUMBER 1
  GAMMA AVERAGE ENERGY SUMUP FAILURE

• fizzcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 681, MF= 1, MT=451
Z NOT IN RANGE  1.00000E+00 TO  2.90000E+01  SEQUENCE NUMBER  1

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 682, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 683, MF= 1, MT=451
Z NOT IN RANGE  1.00000E+00 TO  3.00000E+01  SEQUENCE NUMBER  1

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 683, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 683, MF= 1, MT=451
Z NOT IN RANGE  1.00000E+00 TO  3.00000E+01  SEQUENCE NUMBER  1
ERROR(S) FOUND IN MAT= 684, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

- Passed All Checks!

ERROR(S) FOUND IN MAT= 686, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

- Passed All Checks!
- Passed All Checks!
- Passed All Checks!
- Passed All Checks!
- Passed All Checks!
- Passed All Checks!
- Passed All Checks!

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

150
ERROR(S) FOUND IN MAT= 694, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Errors:

  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 695, MF= 8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 6.43981E+05 SUM= 6.40412E+05

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 696, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!

ERROR(S) FOUND IN MAT= 698, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!
• Passed All Checks!
  dec-031_Ga_076.endf
• Passed All Checks!
  dec-031_Ga_077.endf
• Passed All Checks!
  dec-031_Ga_078.endf

• fizcon Errors:
  1. Energies released in decay not adding up!
     ERROR(S) FOUND IN MAT= 704, MF= 8, MT=457
     PARITY= 0.000000E+00 NOT +1.0 OR -1.0
     TOTAL ENERGY RELEASE SUMUP FAILURE
     WHOLE= 5.22153E+06 SUM= 2.78025E+06
     SEQUENCE NUMBER 1
     ...

• Passed All Checks!
  dec-031_Ga_079.endf
• Passed All Checks!
  dec-031_Ga_080.endf

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.
     ERROR(S) FOUND IN MAT= 706, MF= 8, MT=457
     NORMALIZATION CHECK INTEGRAL= 1.00618E+00 BEFORE SEQUENCE NUMBER 352
     NEUTRON AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 2.63742E+02 SUM= 2.71664E+02

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.
     ERROR(S) FOUND IN MAT= 707, MF= 8, MT=457
     PARITY= 0.000000E+00 NOT +1.0 OR -1.0
     NORMALIZATION CHECK INTEGRAL= 1.00316E+00 BEFORE SEQUENCE NUMBER 300
     NEUTRON AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 2.75638E+03 SUM= 2.83515E+03
• fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

```
ERROR(S) FOUND IN MAT= 708, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00305E+00 BEFORE SEQUENCE NUMBER  419
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 4.41221E+04  SUM= 4.52813E+04
```

dec-031_Ga_082.endf

• fizcon Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT= 709, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 1.16976E+07  SUM= 8.05112E+06  SEQUENCE NUMBER  1
GAMMA AVERAGE ENERGY SUMUP FAILURE
...
```

dec-031_Ga_083.endf

• fizcon Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT= 710, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 9.01925E+06  SUM= 5.24451E+06  SEQUENCE NUMBER  1
GAMMA AVERAGE ENERGY SUMUP FAILURE
...
```

dec-031_Ga_084.endf

• fizcon Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT= 711, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 1.29964E+07  SUM= 8.06549E+06  SEQUENCE NUMBER  1
...
```

dec-031_Ga_085.endf

• fizcon Errors:
1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT= 712, MF= 8, MT=457
   PARITY= 0.000000E+00 NOT +1.0 OR -1.0   SEQUENCE NUMBER  4
   E(MAXIMUM) > Q  E= 1.26400E+07  Q= 9.84600E+06  SEQUENCE NUMBER 10
   TOTAL ENERGY RELEASE SUMUP FAILURE

   ... dec-031_Ga_086.endf

•  fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT= 713, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 1.15511E+07  SUM= 6.63431E+06  SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

   ... dec-032_Ge_058.endf

•  fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 714, MF= 8, MT=457
   7 IN RTYPE = 7.70000E+00 IS INVALID   NEAR SEQUENCE NUMBER 5
   NO DECAY SPECTRA GIVEN                SEQUENCE NUMBER  5

2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as Zs one computes from them.

   ERROR(S) FOUND IN MAT= 714, MF= 1, MT=451
   Z NOT IN RANGE  1.00000E+00 TO 3.00000E+01  SEQUENCE NUMBER 1

   ... dec-032_Ge_059.endf

•  fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 715, MF= 8, MT=457
   7 IN RTYPE = 7.70000E+00 IS INVALID   NEAR SEQUENCE NUMBER 5
   NO DECAY SPECTRA GIVEN                SEQUENCE NUMBER  5

   154
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 715, MF= 1, MT=451
   Z NOT IN RANGE  1.00000E+00 TO  3.10000E+01  SEQUENCE NUMBER  1
```

```
• fizcon Non-errors:
```

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 716, MF= 8, MT=457
   7 IN RTYPE =  7.70000E+00 IS INVALID  NEAR SEQUENCE NUMBER  6
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6
```

```
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

```
ERROR(S) FOUND IN MAT= 716, MF= 1, MT=451
   Z NOT IN RANGE  1.00000E+00 TO  3.10000E+01  SEQUENCE NUMBER  1
```

```
• fizcon Non-errors:
```

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 717, MF= 8, MT=457
   7 IN RTYPE =  2.70000E+00 IS INVALID  NEAR SEQUENCE NUMBER  6
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6
```

```
• fizcon Non-errors:
```

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 718, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

```
• fizcon Non-errors:
```
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 719, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

• fizzcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 720, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

• Passed All Checks!

• fizzcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 721, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

• Passed All Checks!

• fizzcon Errors:
  1. Beta spectrum integral too small

156
ERROR(S) FOUND IN MAT= 725, MF= 8, MT=457
   FT VALUE TOO SMALL
     SEQUENCE NUMBER 126
     FT= 3.12759E+01  E= 1.12041E+06  I= 46  SEQUENCE NUMBER 126

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 726, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
     WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

• Passed All Checks!

ERROR(S) FOUND IN MAT= 729, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
     WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 730, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
     WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
• Passed All Checks!

---dec-032_Ge_074.endf---

• fizcon

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=732, MF=8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE=1.00000E+00 SUM=0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---dec-032_Ge_075.endf---

• Passed All Checks!

---dec-032_Ge_075m1.endf---

• Passed All Checks!

---dec-032_Ge_076.endf---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=735, MF=8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE=1.00000E+00 SUM=0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---dec-032_Ge_077.endf---

• Passed All Checks!

---dec-032_Ge_077m1.endf---

• Passed All Checks!

---dec-032_Ge_078.endf---

• Passed All Checks!

---dec-032_Ge_079.endf---

• Passed All Checks!

---dec-032_Ge_079m1.endf---

• Passed All Checks!
• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• fizzle Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

    ERROR(S) FOUND IN MAT= 744, MF= 8, MT=457
    NORMALIZATION CHECK INTEGRAL= 1.00228E+00 BEFORE SEQUENCE NUMBER 264
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 4.68802E+06 SUM= 3.57687E+06 SEQUENCE NUMBER 1

    ...

• fizzle Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT= 745, MF= 8, MT=457
    PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
    E(MAXIMUM) > Q  E= 1.06000E+06 Q= 1.05534E+06 SEQUENCE NUMBER 553
    TOTAL ENERGY RELEASE SUMUP FAILURE

    ...

• fizzle Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT= 746, MF= 8, MT=457
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 7.27107E+06 SUM= 4.14709E+06 SEQUENCE NUMBER 1

    GAMMA AVERAGE ENERGY SUMUP FAILURE

    ...

• fizzle Errors:
1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT= 747, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 9.98946E+06 SUM= 5.41028E+06 SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

   --------------------------------------------------
   dec-032_Ge_086.endf

   • fizcon Errors:

   1. Energies released in decay not adding up!
      ERROR(S) FOUND IN MAT= 748, MF= 8, MT=457
      TOTAL ENERGY RELEASE SUMUP FAILURE
      WHOLE= 9.00219E+06 SUM= 5.04808E+06 SEQUENCE NUMBER 1
      GAMMA AVERAGE ENERGY SUMUP FAILURE
      ...

   --------------------------------------------------
   dec-032_Ge_087.endf

   • fizcon Errors:

   1. Energies released in decay not adding up!
      ERROR(S) FOUND IN MAT= 749, MF= 8, MT=457
      PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
      TOTAL ENERGY RELEASE SUMUP FAILURE
      WHOLE= 1.11832E+07 SUM= 6.59094E+06 SEQUENCE NUMBER 1
      ...

   --------------------------------------------------
   dec-032_Ge_088.endf

   • fizcon Errors:

   1. Energies released in decay not adding up!
      ERROR(S) FOUND IN MAT= 750, MF= 8, MT=457
      TOTAL ENERGY RELEASE SUMUP FAILURE
      WHOLE= 1.04846E+07 SUM= 5.82292E+06 SEQUENCE NUMBER 1
      GAMMA AVERAGE ENERGY SUMUP FAILURE
      ...

   --------------------------------------------------
   dec-032_Ge_089.endf

   • fizcon Errors:

   1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT= 751, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 1.20946E+07  SUM= 6.75964E+06  SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE

----------- dec-033_As_060.endf --------------
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 752, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

  2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 752, MF= 1, MT=451
Z NOT IN RANGE  1.00000E+00 TO  3.10000E+01  SEQUENCE NUMBER 1

----------- dec-033_As_061.endf --------------
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 753, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

  2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 753, MF= 1, MT=451
Z NOT IN RANGE  1.00000E+00 TO  3.20000E+01  SEQUENCE NUMBER 1

----------- dec-033_As_062.endf --------------
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 754, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

161
2. The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.

ERROR(S) FOUND IN MAT= 754, MF= 1, MT=451
Z NOT IN RANGE  1.00000E+00 TO  3.20000E+01 SEQUENCE NUMBER  1

• dec-033_As_063.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 755, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER  5

• dec-033_As_064.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 756, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER  5

• dec-033_As_065.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 757, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER  5

• dec-033_As_066.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 758, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER  5

• dec-033_As_067.endf

• Passed All Checks!
fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 767, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
• fizcon Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT= 772, MF= 8, MT=457
    BETA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 8.39239E+05  SUM= 8.70844E+05

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• fizcon Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT= 777, MF= 8, MT=457
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 5.67134E+06  SUM= 3.78024E+06  SEQUENCE NUMBER 1
    GAMMA AVERAGE ENERGY SUMUP FAILURE

    ...

• fizcon Errors:

    ERROR(S) FOUND IN MAT= 778, MF= 8, MT=457
    E(MAXIMUM) > Q  E= 1.42000E+06  Q= 1.41578E+06  SEQUENCE NUMBER 223
    NEUTRON AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 4.98918E+02  SUM= 5.14097E+02

164
• fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT= 779, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 6.52936E+06 SUM= 3.76223E+06
   SEQUENCE NUMBER 4

...  

dec-033_As_086.endf

• fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT= 780, MF= 8, MT=457
   NORMALIZATION CHECK INTEGRAL= 1.00104E+00 BEFORE SEQUENCE NUMBER 866
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 1.07717E+07 SUM= 7.13245E+06
   SEQUENCE NUMBER 1

...  

dec-033_As_087.endf

• fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT= 781, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0
   NORMALIZATION CHECK INTEGRAL= 1.01093E+00 BEFORE SEQUENCE NUMBER 832
   TOTAL ENERGY RELEASE SUMUP FAILURE

...  

dec-033_As_088.endf

• fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT= 782, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 1.07230E+07 SUM= 6.47270E+06
   SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

...  

dec-033_As_089.endf

• fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 783, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 8.87078E+06 SUM= 4.71205E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE

---
dec-033_As_090.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 784, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 1.24655E+07 SUM= 7.51830E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE

---
dec-033_As_091.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 785, MF= 8, MT=457
E(MAXIMUM) > Q E= 1.29700E+07 Q= 1.09590E+07 SEQUENCE NUMBER 10
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 1.08881E+07 SUM= 6.36419E+06 SEQUENCE NUMBER 1

---
dec-033_As_092.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 786, MF= 8, MT=457
DQ NOT IN RANGE 0.00000E+00 TO 6.17922E+05 SEQUENCE NUMBER 8
E(MAXIMUM) > Q E= 1.57200E+07 Q= 1.12850E+07 SEQUENCE NUMBER 11
TOTAL ENERGY RELEASE SUMUP FAILURE

---
dec-034_Se_065.endf

• fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 787, MF= 8, MT=457  
NO DECAY SPECTRA GIVEN                    SEQUENCE NUMBER 5  
```

dec-034_Se_066.endf

- **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 788, MF= 8, MT=457  
NO DECAY SPECTRA GIVEN                    SEQUENCE NUMBER 5  
```

dec-034_Se_067.endf

- **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 789, MF= 8, MT=457  
NO DECAY SPECTRA GIVEN                    SEQUENCE NUMBER 5  
```

dec-034_Se_068.endf

- **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 790, MF= 8, MT=457  
NO DECAY SPECTRA GIVEN                    SEQUENCE NUMBER 5  
```

dec-034_Se_069.endf

- Passed All Checks!

dec-034_Se_070.endf

- Passed All Checks!

dec-034_Se_071.endf

- Passed All Checks!

dec-034_Se_072.endf

- Passed All Checks!

167
• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT= 797, MF= 8, MT=457
    BRANCHING RATIO SUMUP FAILURE
    WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!

• Passed All Checks!

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT= 799, MF= 8, MT=457
    BRANCHING RATIO SUMUP FAILURE
    WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT= 800, MF= 8, MT=457
    BRANCHING RATIO SUMUP FAILURE
    WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT= 802, MF= 8, MT=457
    BRANCHING RATIO SUMUP FAILURE
    WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Errors:

1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT= 803, MF= 8, MT=457
    BETA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 5.58000E+04 SUM= 5.25898E+04

• Passed All Checks!

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT= 805, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Errors:

1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT= 806, MF= 8, MT=457
    BETA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 6.10714E+05 SUM= 6.08589E+05

• Passed All Checks!
• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT= 808, MF= 8, MT=457
     BRANCHING RATIO SUMUP FAILURE
     WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER  4
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

• **Passed All Checks!**

  • **Passed All Checks!**

• **Passed All Checks!**

• **Passed All Checks!**

• **Passed All Checks!**

• **Passed All Checks!**

• **fizcon Errors:**

  1. All probability distributions should be normalized to 1, this one isn’t.

     ERROR(S) FOUND IN MAT= 814, MF= 8, MT=457
     NORMALIZATION CHECK INTEGRAL= 1.03863E+00 BEFORE SEQUENCE NUMBER  87
     NEUTRON AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 3.12245E+02  SUM= 3.26321E+02

• **fizcon Errors:**

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT= 815, MF= 8, MT=457
     TOTAL ENERGY RELEASE SUMUP FAILURE
     WHOLE= 6.79896E+06  SUM= 3.58108E+06  SEQUENCE NUMBER  1
     GAMMA AVERAGE ENERGY SUMUP FAILURE

...
• **fizcon** Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT= 816, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER  4
   NORMALIZATION CHECK INTEGRAL= 1.00555E+00 BEFORE SEQUENCE NUMBER  748
   TOTAL ENERGY RELEASE SUMUP FAILURE
   ...

• **fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT= 817, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 8.04164E+06 SUM= 4.18158E+06  SEQUENCE NUMBER  1
   GAMMA AVERAGE ENERGY SUMUP FAILURE
   ...

• **fizcon** Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT= 818, MF= 8, MT=457
   NORMALIZATION CHECK INTEGRAL= 1.00376E+00 BEFORE SEQUENCE NUMBER  920
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 1.07042E+07 SUM= 5.87259E+06  SEQUENCE NUMBER  1
   ...

• **fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT= 819, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 9.44672E+06 SUM= 5.15294E+06  SEQUENCE NUMBER  1
   GAMMA AVERAGE ENERGY SUMUP FAILURE
   ...

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• **fizcon Errors:**

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT= 820, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 1.06109E+07 SUM= 6.39027E+06
```

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT= 821, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 9.98405E+06 SUM= 5.41511E+06
GAMMA AVERAGE ENERGY SUMUP FAILURE
```

• **fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 822, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 823, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

172
ERROR(S) FOUND IN MAT= 824, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 825, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 826, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 827, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

173
• Passed All Checks!
  
  dec-035_Br_075.endf

• Passed All Checks!
  
  dec-035_Br_076.endf

• Passed All Checks!
  
  dec-035_Br_076m1.endf

• Passed All Checks!
  
  dec-035_Br_077.endf

• Passed All Checks!
  
  dec-035_Br_077m1.endf

• Passed All Checks!
  
  dec-035_Br_078.endf

• Passed All Checks!
  
  dec-035_Br_079.endf

• Passed All Checks!
  
  dec-035_Br_079m1.endf

• Passed All Checks!
  
  dec-035_Br_080.endf

• fize Errors:

  1. Beta spectrum integral too small

  ERROR(S) FOUND IN MAT= 836, MF= 8, MT=457
  FT VALUE TOO SMALL
  SEQUENCE NUMBER 175
  FT= 1.19816E+02  E= 1.12605E+06  I= 73

• fize Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

  ERROR(S) FOUND IN MAT= 839, MF= 8, MT=457
  BRANCHING RATIO SUMUP FAILURE
  WHOLE= 1.00000E+00  SUM= 0.00000E+00
  SEQUENCE NUMBER 4
  NO DECAY SPECTRA GIVEN
  SEQUENCE NUMBER 5

• fize Errors:

  1. Beta spectrum integral too small
ERROR(S) FOUND IN MAT= 841, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 1.13820E+02 E= 1.20470E+06 I= 12

• Passed All Checks!

dec-035_Br_080m1.endf

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 843, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
NO DECAY SPECTRA GIVEN

• Passed All Checks!

dec-035_Br_081.endf

dec-035_Br_082.endf

• Passed All Checks!

dec-035_Br_082m1.endf

• Passed All Checks!

dec-035_Br_083.endf

• Passed All Checks!

dec-035_Br_084.endf

• Passed All Checks!

dec-035_Br_084m1.endf

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 848, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 4.94900E+06 SUM= 4.62884E+06
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 8.86000E+05 SUM= 7.34986E+05

• Passed All Checks!

dec-035_Br_085.endf

175
Passed All Checks!

fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT= 851, MF= 8, MT=457
   NORMALIZATION CHECK INTEGRAL= 1.00734E+00 BEFORE SEQUENCE NUMBER 1101
   NEUTRON AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 5.41500E+03 SUM= 5.68732E+03

fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT= 852, MF= 8, MT=457
   NORMALIZATION CHECK INTEGRAL= 1.01466E+00 BEFORE SEQUENCE NUMBER 485
   NEUTRON AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 1.63292E+04 SUM= 1.69884E+04

fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT= 853, MF= 8, MT=457
   NORMALIZATION CHECK INTEGRAL= 1.00185E+00 BEFORE SEQUENCE NUMBER 427
   BETA MULTIPLICITY SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 8.58900E-01
   NEUTRON AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 7.08984E+04 SUM= 7.24097E+04

fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT= 854, MF= 8, MT=457
   NORMALIZATION CHECK INTEGRAL= 1.00316E+00 BEFORE SEQUENCE NUMBER 333
   BETA MULTIPLICITY SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 7.47900E-01
   NEUTRON AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 1.62584E+05 SUM= 1.65702E+05
fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT= 855, MF= 8, MT=457
  NORMALIZATION CHECK INTEGRAL= 1.00118E+00 BEFORE SEQUENCE NUMBER 845
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 9.04947E+06 SUM= 4.51277E+06 SEQUENCE NUMBER 1
   ...

fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT= 856, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
   NORMALIZATION CHECK INTEGRAL= 1.00126E+00 BEFORE SEQUENCE NUMBER 965
   TOTAL ENERGY RELEASE SUMUP FAILURE
   ...

fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT= 857, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 1.03678E+07 SUM= 5.41383E+06 SEQUENCE NUMBER 1
   ...

fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT= 858, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 9.07909E+06 SUM= 5.19390E+06 SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE
   ...

177
• fizcon Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT= 859, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 9.35555E+06 SUM= 5.21216E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE
```

• fizcon Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT= 860, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 1.16719E+07 SUM= 6.86844E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE
```

• fizcon Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT= 861, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
E(MAXIMUM) > Q E= 1.29100E+07 Q= 1.04970E+07 SEQUENCE NUMBER 10
TOTAL ENERGY RELEASE SUMUP FAILURE
```

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 862, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 863, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• \textbf{fizcon} Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 864, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• \textbf{fizcon} Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 871, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

179
Passed All Checks!

Dec-36_Kr_079m1.endf

Passed All Checks!

Dec-36_Kr_080.endf

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 874, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.000000E+00 SUM= 0.000000E+00 SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

Passed All Checks!

Dec-36_Kr_081m1.endf

Passed All Checks!

Dec-36_Kr_082.endf

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 877, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.000000E+00 SUM= 0.000000E+00 SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

Passed All Checks!

Dec-36_Kr_083m1.endf

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 878, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.000000E+00 SUM= 0.000000E+00 SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

180
Passed All Checks!

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT= 880, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

Passed All Checks!

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT= 883, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

Passed All Checks!
• Passed All Checks!

---

cr-036_Kr_092.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 889, MF= 8, MT=457
E(MAXIMUM) > Q  E= 9.1000E+05  Q= 9.0584E+05  SEQUENCE NUMBER 246
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 7.42209E+01  SUM= 7.67228E+01

---

cr-036_Kr_093.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 890, MF= 8, MT=457
E(MAXIMUM) > Q  E= 2.57000E+06  Q= 2.56529E+06  SEQUENCE NUMBER 558
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 8.73890E+03  SUM= 8.93336E+03

---

cr-036_Kr_094.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 891, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 7.16968E+06  SUM= 3.87094E+06  SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE

...
1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT= 893, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00393E+00 BEFORE SEQUENCE NUMBER 726
TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 8.14403E+06 SUM= 4.52484E+06 SEQUENCE NUMBER 1

...
1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT= 897, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 1.09139E+07  SUM= 6.25159E+06
  SEQUENCE NUMBER  1
GAMMA AVERAGE ENERGY SUMUP FAILURE
```

...dec-037_Rb_071.endf...

- **fizcon**

  - Non-errors:
    1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 898, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

...dec-037_Rb_072.endf...

- **fizcon**

  - Non-errors:
    1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 899, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

...dec-037_Rb_073.endf...

- **fizcon**

  - Non-errors:
    1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT= 900, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

...dec-037_Rb_074.endf...

- **fizcon**

  - Errors:
    1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT= 901, MF= 8, MT=457
  E.C. MULTIPLICITY SUMUP FAILURE
    WHOLE= 1.00000E+00  SUM= 9.98360E-01
  E.C. AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 4.45239E+06  SUM= 4.43793E+06
```

184
fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 902, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
• Passed All Checks!

---_dec-037_Rb_084m1.endf---

• Passed All Checks!

---_dec-037_Rb_085.endf---

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT= 916, MF= 8, MT=457
     BRANCHING RATIO SUMUP FAILURE
     WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
     NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---_dec-037_Rb_086.endf---

• **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT= 917, MF= 8, MT=457
     BETA AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 6.68897E+05 SUM= 6.67589E+05

---_dec-037_Rb_086m1.endf---

• Passed All Checks!

---_dec-037_Rb_087.endf---

• Passed All Checks!

---_dec-037_Rb_088.endf---

• Passed All Checks!

---_dec-037_Rb_089.endf---

• Passed All Checks!

---_dec-037_Rb_090.endf---

• **fizcon** Errors:

  1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT= 922, MF= 8, MT=457
BETA ENERGY (BE) SUMUP FAILURE
  WHOLE= 1.90476E+06 SUM= 2.04973E+06 SEQUENCE NUMBER 3
GAMMA ENERGY (GE) SUMUP FAILURE
  WHOLE= 2.27219E+06 SUM= 2.02857E+06 SEQUENCE NUMBER 3

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 923, MF= 8, MT=457
BETA ENERGY (BE) SUMUP FAILURE
  WHOLE= 1.11460E+06 SUM= 1.40195E+06 SEQUENCE NUMBER 3
GAMMA ENERGY (GE) SUMUP FAILURE
  WHOLE= 3.86635E+06 SUM= 3.24062E+06 SEQUENCE NUMBER 3

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT= 924, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.11300E+00 BEFORE SEQUENCE NUMBER 389
BETA ENERGY (BE) SUMUP FAILURE
  WHOLE= 1.37028E+06 SUM= 1.61875E+06 SEQUENCE NUMBER 3

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT= 925, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00168E+00 BEFORE SEQUENCE NUMBER 203
E(MAXIMUM) > Q  E= 9.80000E+05  Q= 8.08920E+05 SEQUENCE NUMBER 169
NEUTRON AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 2.04073E+01 SUM= 2.11747E+01

• fizcon Errors:
  1. Energies released in decay not adding up!

187
ERROR(S) FOUND IN MAT= 926, MF= 8, MT=457
GAMMA ENERGY (GE) SUMUP FAILURE
WHOLE= 2.52346E+06 SUM= 2.25670E+06 SEQUENCE NUMBER 3
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 5.57256E+03 SUM= 5.70398E+03

___________________________dec-037_Rb_094.endf___________________________

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT= 927, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00180E+00 BEFORE SEQUENCE NUMBER 550
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 9.56421E+06 SUM= 6.35824E+06 SEQUENCE NUMBER 1
...

___________________________dec-037_Rb_095.endf___________________________

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT= 928, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00192E+00 BEFORE SEQUENCE NUMBER 757
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 8.85077E+06 SUM= 7.31651E+06 SEQUENCE NUMBER 1
...

___________________________dec-037_Rb_096.endf___________________________

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 929, MF= 8, MT=457
BETA MULTIPLICITY SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 8.83400E-01
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 5.52834E+04 SUM= 5.65429E+04

___________________________dec-037_Rb_097.endf___________________________

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.
ERROR(S) FOUND IN MAT= 930, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00159E+00 BEFORE SEQUENCE NUMBER 470
TOTAL ENERGY RELEASE SUMUP FAILURE
     WHOLE= 9.12229E+06  SUM= 7.74137E+06  SEQUENCE NUMBER 1
...

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 931, MF= 8, MT=457
BETA MULTIPLICITY SUMUP FAILURE
     WHOLE= 1.00102E+00  SUM= 8.39000E-01
NEUTRON AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 7.32334E+04  SUM= 7.46926E+04

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 932, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
PARITY= 0.00000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT= 933, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00798E+00 BEFORE SEQUENCE NUMBER 1007
TOTAL ENERGY RELEASE SUMUP FAILURE
     WHOLE= 1.01562E+07  SUM= 5.46662E+06  SEQUENCE NUMBER 1
...

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.
ERROR(S) FOUND IN MAT= 934, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00101E+00 BEFORE SEQUENCE NUMBER 1114
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 1.15254E+07 SUM= 6.95230E+06 SEQUENCE NUMBER 1

---

dec-037_Rb_101.endf

• fizcon Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT= 935, MF= 8, MT=457
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 1.13576E+07 SUM= 6.26049E+06 SEQUENCE NUMBER 1
    GAMMA AVERAGE ENERGY SUMUP FAILURE

---

dec-037_Rb_102.endf

• fizcon Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT= 936, MF= 8, MT=457
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 1.33335E+07 SUM= 8.18465E+06 SEQUENCE NUMBER 1
    GAMMA AVERAGE ENERGY SUMUP FAILURE

---

dec-038_Sr_073.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT= 937, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5

---

dec-038_Sr_074.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT= 938, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5

190
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT= 939, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT= 940, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

Passed All Checks!

Passed All Checks!

Errors:

1. Beta spectrum integral too small

   ERROR(S) FOUND IN MAT= 944, MF= 8, MT=457
   FT VALUE TOO SMALL SEQUENCE NUMBER 24
   FT= 6.98533E+01 E= 1.27600E+06 I= 8 SEQUENCE NUMBER 24
• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Fizcon Non-Errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT= 949, MF= 8, MT=457
     BRANCHING RATIO SUMUP FAILURE
     WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
     NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!

• Fizcon Errors:

  1. Beta spectrum integral too small

     ERROR(S) FOUND IN MAT= 951, MF= 8, MT=457
     FT VALUE TOO SMALL
     FT= 6.72467E+00 E= 1.15260E+06 I= 15 SEQUENCE NUMBER 43

• Fizcon Non-Errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT= 952, MF= 8, MT=457
     BRANCHING RATIO SUMUP FAILURE
     WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
     NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

192
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT= 953, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT= 956, MF= 8, MT=457
   BETA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 5.85342E+05  SUM= 5.84417E+05
• **fizcon** Errors:

1. Energies released in decay not adding up!

   **ERROR(S) FOUND IN MAT= 960, MF= 8, MT=457**

   **GAMMA ENERGY (GE) SUMUP FAILURE**
   
   WHOLE= 2.16706E+06 SUM= 1.97343E+06 SEQUENCE NUMBER 3

---

• **Passed All Checks!**

---

• **fizcon** Errors:

1. Energies released in decay not adding up!

   **ERROR(S) FOUND IN MAT= 962, MF= 8, MT=457**

   **BETA ENERGY (BE) SUMUP FAILURE**
   
   WHOLE= 1.89199E+06 SUM= 2.20344E+06 SEQUENCE NUMBER 3

   **GAMMA ENERGY (GE) SUMUP FAILURE**
   
   WHOLE= 1.79031E+06 SUM= 1.14500E+06 SEQUENCE NUMBER 3

---

• **fizcon** Errors:

1. Energies released in decay not adding up!

   **ERROR(S) FOUND IN MAT= 963, MF= 8, MT=457**

   **E(MAXIMUM) > Q E= 2.10000E+05 Q= 2.08860E+05** SEQUENCE NUMBER 63

   **NEUTRON AVERAGE ENERGY SUMUP FAILURE**
   
   WHOLE= 7.05417E-02 SUM= 7.64252E-02

---

• **fizcon** Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   **ERROR(S) FOUND IN MAT= 964, MF= 8, MT=457**

   **NORMALIZATION CHECK INTEGRAL= 1.02111E+00 BEFORE SEQUENCE NUMBER 237**

   **NEUTRON AVERAGE ENERGY SUMUP FAILURE**
   
   WHOLE= 3.50299E+01 SUM= 3.64248E+01

---

• **fizcon** Errors:
1. All probability distributions should be normalized to 1, this one isn’t.

```
ERROR(S) FOUND IN MAT= 965, MF= 8, MT=457
FT VALUE TOO SMALL                      SEQUENCE NUMBER 191
   FT= 5.78778E+05   E= 5.69626E+06   I= 82    SEQUENCE NUMBER 191
NORMALIZATION CHECK INTEGRAL= 1.02341E+00 BEFORE SEQUENCE NUMBER 254
NEUTRON AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 6.41149E+02   SUM= 6.60673E+02
```

```
• fizcon Errors:
```

```
1. All probability distributions should be normalized to 1, this one isn’t.

```

```
ERROR(S) FOUND IN MAT= 966, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00745E+00 BEFORE SEQUENCE NUMBER 282
NEUTRON AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 2.18832E+02   SUM= 2.26166E+02
```

```
• fizcon Errors:
```

```
1. Energies released in decay not adding up!

```

```
ERROR(S) FOUND IN MAT= 967, MF= 8, MT=457
NEUTRON AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 2.54090E+03   SUM= 2.60621E+03
```

```
• fizcon Errors:
```

```
1. Energies released in decay not adding up!

```

```
ERROR(S) FOUND IN MAT= 968, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 9.36742E+06   SUM= 6.30839E+06    SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE
```

```
• fizcon Errors:
```

```
1. Energies released in decay not adding up!

```

```
```
```
ERROR(S) FOUND IN MAT= 969, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 8.58312E+06    SUM= 4.83904E+06    SEQUENCE NUMBER   1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

dec-038_Sr_103.endf

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 970, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 1.08395E+07    SUM= 6.11914E+06    SEQUENCE NUMBER   1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

dec-038_Sr_104.endf

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT= 971, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 9.83893E+06    SUM= 5.45134E+06    SEQUENCE NUMBER   1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

dec-038_Sr_105.endf

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT= 972, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.02183E+00 BEFORE SEQUENCE NUMBER 1057
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 1.12991E+07    SUM= 6.82513E+06    SEQUENCE NUMBER   1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

dec-039_Y_076.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT= 973, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

QUENCE NUMBER 6

dec-039_Y_077.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 974, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

QUENCE NUMBER 5

dec-039_Y_078.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 975, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

QUENCE NUMBER 5

dec-039_Y_078m1.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 976, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

QUENCE NUMBER 5

  2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and
     let science progress

ERROR(S) FOUND IN MAT= 976, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE

QUENCE NUMBER 2

dec-039_Y_079.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 977, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

QUENCE NUMBER 5

197
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 979, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 981, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 986, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
Errors:

1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT= 987, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 3.67035E+01 E= 1.15702E+06 I= 146
SEQUENCE NUMBER 302

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT= 995, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
• **fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT= 997, MF= 8, MT=457
   BETA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 9.32814E+05  SUM= 9.30621E+05

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• **fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1005, MF= 8, MT=457
   BETA ENERGY (BE) SUMUP FAILURE
   WHOLE= 1.38295E+06  SUM= 1.43659E+06  SEQUENCE NUMBER 3
   GAMMA ENERGY (GE) SUMUP FAILURE
   WHOLE= 1.22260E+06  SUM= 1.09196E+06  SEQUENCE NUMBER 3

• Passed All Checks!
• Passed All Checks!

• **fizcon** Errors:
  1. Energies released in decay not adding up!

```plaintext
ERROR(S) FOUND IN MAT=1008, MF= 8, MT=457
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.00435E+02 SUM= 1.04270E+02
```

• **fizcon** Errors:
  1. Energies released in decay not adding up!

```plaintext
ERROR(S) FOUND IN MAT=1009, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 6.81817E+06 SUM= 7.54912E+06 SEQUENCE NUMBER 1
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.56114E+02 SUM= 2.61587E+02
```

• **fizcon** Non-errors:
  1. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

```plaintext
ERROR(S) FOUND IN MAT=1010, MF= 1, MT=451
ELIS NOT IN RANGE  0.00000E+00 TO  3.00000E+06 SEQUENCE NUMBER 3
```

• **fizcon** Errors:
  1. Beta spectrum integral too small

```plaintext
ERROR(S) FOUND IN MAT=1011, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 6.52638E+05 E= 7.40123E+06 I= 39 SEQUENCE NUMBER 95
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 7.23253E+02 SUM= 7.47503E+02
```
• **fizcon Errors:**

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1012, MF= 8, MT=457  
   NEUTRON AVERAGE ENERGY SUMUP FAILURE  
   WHOLE= 7.10276E+02 SUM= 7.34390E+02

   _______________________________________________________________________

• **fizcon Errors:**

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1013, MF= 8, MT=457  
   E(DISCRETE) > Q  E= 6.99232E+06  Q= 6.96761E+06  SEQUENCE NUMBER 348  
   E(DISCRETE) > Q  E= 7.31604E+06  Q= 6.96761E+06  SEQUENCE NUMBER 350  
   E(DISCRETE) > Q  E= 7.44626E+06  Q= 6.96761E+06  SEQUENCE NUMBER 352  
   E(MAXIMUM) > Q  E= 2.57000E+06  Q= 2.56546E+06  SEQUENCE NUMBER 356  
   NEUTRON AVERAGE ENERGY SUMUP FAILURE  
   WHOLE= 7.44494E+03 SUM= 7.60752E+03

   _______________________________________________________________________

• **fizcon Errors:**

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1014, MF= 8, MT=457  
   NEUTRON AVERAGE ENERGY SUMUP FAILURE  
   WHOLE= 3.89368E+03 SUM= 3.97985E+03

   _______________________________________________________________________

• **fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1015, MF= 8, MT=457  
   NEGATIVE SPIN NOT ALLOWED  
   SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL  
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0  
   NO DECAY SPECTRA GIVEN  
   SEQUENCE NUMBER 4

   _______________________________________________________________________

• **fizcon Errors:**

202
1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1016, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 8.00884E+06 SUM= 4.44530E+06 SEQUENCE NUMBER 1

   ...
ERROR(S) FOUND IN MAT=1019, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 8.98007E+06  SUM= 5.00568E+06  SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE
...

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1020, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 1.13681E+07  SUM= 7.01147E+06  SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE
...

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=1021, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.01887E+00 BEFORE SEQUENCE NUMBER 957
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 1.02731E+07  SUM= 5.77762E+06  SEQUENCE NUMBER 1
...

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1022, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 1.16108E+07  SUM= 6.95073E+06  SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE
...

• fizcon Errors:
  1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=1023, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 1.07355E+07 SUM= 5.72694E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE
...

dec-039_Y_108.endf

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=1024, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00434E+00 BEFORE SEQUENCE NUMBER 1184
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 1.13051E+07 SUM= 6.30560E+06 SEQUENCE NUMBER 1
...

dec-040_Zr_078.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1025, MF= 8, MT=457
  7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
  NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

dec-040_Zr_079.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1026, MF= 8, MT=457
  7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
  NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

dec-040_Zr_080.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1027, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

205
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1028, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID  NEAR SEQUENCE NUMBER 6
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 6

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1029, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

• Passed All Checks!

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1031, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

• Passed All Checks!

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1033, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 6
• Passed All Checks!

dec-040_Zr_087.endf

• Passed All Checks!

dec-040_Zr_087m1.endf

• Passed All Checks!

dec-040_Zr_088.endf

• Passed All Checks!

dec-040_Zr_089.endf

• Passed All Checks!

dec-040_Zr_089m1.endf

• Passed All Checks!

dec-040_Zr_090.endf

• Passed All Checks!

dec-040_Zr_090m1.endf

• Passed All Checks!

dec-040_Zr_091.endf

• Passed All Checks!

dec-040_Zr_092.endf

• Passed All Checks!

dec-040_Zr_092m1.endf

• Passed All Checks!

dec-040_Zr_093.endf

• Passed All Checks!

dec-040_Zr_093m1.endf

• Passed All Checks!

dec-040_Zr_094.endf

• Passed All Checks!

dec-040_Zr_094m1.endf

• Passed All Checks!

dec-040_Zr_095.endf

• Passed All Checks!

dec-040_Zr_095m1.endf

• Passed All Checks!

dec-040_Zr_096.endf

• Passed All Checks!

dec-040_Zr_096m1.endf

• Passed All Checks!

dec-040_Zr_097.endf

• Passed All Checks!

dec-040_Zr_097m1.endf

• Passed All Checks!

dec-040_Zr_098.endf

• Passed All Checks!

dec-040_Zr_098m1.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1040, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1042, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

207
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1043, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

```
Passed All Checks!
```

• Passed All Checks!

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1045, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

```
Passed All Checks!
```

• Passed All Checks!

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1047, MF= 8, MT=457
T12 NOT IN RANGE 0.00000E+00 TO 1.00000E+24 SEQUENCE NUMBER 3
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

```
Passed All Checks!
```

• Passed All Checks!

• *fizcon* Errors:

1. All probability distributions should be normalized to 1, this one isn’t.
ERROR(S) FOUND IN MAT=1049, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00231E+00 BEFORE SEQUENCE NUMBER 151
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 2.23780E+06 SUM= 1.17143E+06 SEQUENCE NUMBER 1

...
ERROR(S) FOUND IN MAT=1056, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00570E+00 BEFORE SEQUENCE NUMBER 643
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 8.43163E+06  SUM= 4.45729E+06  SEQUENCE NUMBER 1

...dec-040_Zr_106.endf

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1057, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 7.13713E+06  SUM= 3.83887E+06  SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE

...dec-040_Zr_107.endf

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1058, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 9.36454E+06  SUM= 5.80234E+06  SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE

...dec-040_Zr_108.endf

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=1059, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00604E+00 BEFORE SEQUENCE NUMBER 671
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 8.14950E+06  SUM= 4.45322E+06  SEQUENCE NUMBER 1

...dec-040_Zr_109.endf

• fizcon Errors:
  1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=1060, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 1.02959E+07 SUM= 6.46160E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1061, MF= 8, MT=457
DQ NOT IN RANGE  0.00000E+00 TO  5.35748E+05 SEQUENCE NUMBER 7
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 9.15897E+06 SUM= 5.15430E+06 SEQUENCE NUMBER 1

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1062, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 5
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• Passed All Checks!

ERROR(S) FOUND IN MAT=1064, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!

211
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=1066, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5

    _______________dec-041_Nb_085m1.endf _______________

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=1067, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 6

    _______________dec-041_Nb_086.endf _______________

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=1068, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5

    _______________dec-041_Nb_087.endf _______________

• fizcon Errors:

1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=1069, MF= 8, MT=457
    E.C. AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 1.82831E+06 SUM= 1.82422E+06

    _______________dec-041_Nb_087m1.endf _______________

• fizcon Errors:

1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=1070, MF= 8, MT=457
    E.C. MULTIPLICITY SUMUP FAILURE
    WHOLE= 1.00000E+00 SUM= 9.50000E-01
    E.C. AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 1.53043E+06 SUM= 1.52717E+06
fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1071, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1072, MF= 8, MT=457
E.C. AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.39060E+06 SUM= 1.77308E+06

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1075, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 3.82625E+06 SUM= 3.67314E+06
E.C. MULTIPLICITY SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 9.50210E-01

Passed All Checks!

Passed All Checks!

Passed All Checks!
• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

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Errors:
1. Energies released in decay not adding up!
   ERROR(S) FOUND IN MAT=1089, MF= 8, MT=457
   BETA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 4.67504E+05 SUM= 4.66041E+05

Errors:
1. Beta spectrum integral too small
   ERROR(S) FOUND IN MAT=1095, MF= 8, MT=457
   FT VALUE TOO SMALL SEQUENCE NUMBER 111
   FT= 2.12553E+05 E= 3.41060E+06 I= 45 SEQUENCE NUMBER 111
- **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=1099, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

  2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

     ERROR(S) FOUND IN MAT=1099, MF= 1, MT=451
     ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

---

- **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=1100, MF= 8, MT=457
     TOTAL ENERGY RELEASE SUMUP FAILURE
     WHOLE= 5.94663E+06 SUM= 3.56187E+06 SEQUENCE NUMBER 1
     GAMMA AVERAGE ENERGY SUMUP FAILURE

     ...

---

- **fizcon** Errors:

  1. All probability distributions should be normalized to 1, this one isn’t.

     ERROR(S) FOUND IN MAT=1101, MF= 8, MT=457
     NORMALIZATION CHECK INTEGRAL= 1.00367E+00 BEFORE SEQUENCE NUMBER 583
     TOTAL ENERGY RELEASE SUMUP FAILURE
     WHOLE= 8.52617E+06 SUM= 5.53339E+06 SEQUENCE NUMBER 1

     ...

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- **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=1102, MF= 8, MT=457
     TOTAL ENERGY RELEASE SUMUP FAILURE
     WHOLE= 8.74192E+06 SUM= 5.53714E+06 SEQUENCE NUMBER 1
     GAMMA AVERAGE ENERGY SUMUP FAILURE

     ...

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• **fizcon** Errors:

1. Energies released in decay not adding up!

```plaintext
ERROR(S) FOUND IN MAT=1103, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 7.35034E+06  SUM= 4.48884E+06  SEQUENCE NUMBER 1
  GAMMA AVERAGE ENERGY SUMUP FAILURE
```

...
• **fizcon** Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   \[
   \begin{align*}
   \text{ERROR(S) FOUND IN MAT=1107, MF= 8, MT=457} \\
   \text{PARITY= 0.00000E+00 NOT +1.0 OR -1.0} \\
   \text{SEQUENCE NUMBER 4} \\
   \text{NORMALIZATION CHECK INTEGRAL= 1.00138E+00 BEFORE SEQUENCE NUMBER 820} \\
   \text{TOTAL ENERGY RELEASE SUMUP FAILURE}
   \end{align*}
   \]

• **fizcon** Errors:

1. Energies released in decay not adding up!

   \[
   \begin{align*}
   \text{ERROR(S) FOUND IN MAT=1108, MF= 8, MT=457} \\
   \text{TOTAL ENERGY RELEASE SUMUP FAILURE} \\
   \text{WHOLE= 1.10931E+07 SUM= 7.57204E+06} \\
   \text{SEQUENCE NUMBER 1} \\
   \text{GAMMA AVERAGE ENERGY SUMUP FAILURE}
   \end{align*}
   \]

• **fizcon** Errors:

1. Energies released in decay not adding up!

   \[
   \begin{align*}
   \text{ERROR(S) FOUND IN MAT=1109, MF= 8, MT=457} \\
   \text{TOTAL ENERGY RELEASE SUMUP FAILURE} \\
   \text{WHOLE= 7.64115E+06 SUM= 3.97384E+06} \\
   \text{SEQUENCE NUMBER 1} \\
   \text{GAMMA AVERAGE ENERGY SUMUP FAILURE}
   \end{align*}
   \]

• **fizcon** Errors:

1. Energies released in decay not adding up!

   \[
   \begin{align*}
   \text{ERROR(S) FOUND IN MAT=1110, MF= 8, MT=457} \\
   \text{TOTAL ENERGY RELEASE SUMUP FAILURE} \\
   \text{WHOLE= 8.83633E+06 SUM= 4.96141E+06} \\
   \text{SEQUENCE NUMBER 1} \\
   \text{GAMMA AVERAGE ENERGY SUMUP FAILURE}
   \end{align*}
   \]

• **fizcon** Errors:
1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1111, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 9.22722E+06  SUM= 4.96607E+06  SEQUENCE NUMBER  1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

   --------------------------------------- dec-042_Mo_083.endf ---------------------------------------

   * fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=1112, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

   --------------------------------------- dec-042_Mo_084.endf ---------------------------------------

   * fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=1113, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

   --------------------------------------- dec-042_Mo_085.endf ---------------------------------------

   * fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=1114, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID  NEAR SEQUENCE NUMBER  6
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

   --------------------------------------- dec-042_Mo_086.endf ---------------------------------------

   * fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=1115, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
Passed All Checks!

• dec-042_Mo_087.endf

Passed All Checks!

• dec-042_Mo_088.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=1117, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

Passed All Checks!

• dec-042_Mo_089.endf

Passed All Checks!

• dec-042_Mo_089m1.endf

Passed All Checks!

• dec-042_Mo_090.endf

Passed All Checks!

• dec-042_Mo_091.endf

Passed All Checks!

• dec-042_Mo_091m1.endf

Passed All Checks!

• dec-042_Mo_092.endf

• dec-042_Mo_093.endf

Passed All Checks!

• dec-042_Mo_093m1.endf

220
• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=1126, MF= 8, MT=457
     BRANCHING RATIO SUMUP FAILURE
     WHOLE= 1.00000E+00 SUM= 0.00000E+00  SEQUENCE NUMBER  4
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=1127, MF= 8, MT=457
     BRANCHING RATIO SUMUP FAILURE
     WHOLE= 1.00000E+00 SUM= 0.00000E+00  SEQUENCE NUMBER  4
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=1128, MF= 8, MT=457
     BRANCHING RATIO SUMUP FAILURE
     WHOLE= 1.00000E+00 SUM= 0.00000E+00  SEQUENCE NUMBER  4
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=1129, MF= 8, MT=457
     BRANCHING RATIO SUMUP FAILURE
     WHOLE= 1.00000E+00 SUM= 0.00000E+00  SEQUENCE NUMBER  4
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

  221
• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=1130, MF= 8, MT=457
     BRANCHING RATIO SUMUP FAILURE
     WHOLE= 1.00000E+00 SUM= 0.00000E+00
     NO DECAY SPECTRA GIVEN

     ___________dec-042_Mo_099.endf_________________________

• Passed All Checks!

     ___________dec-042_Mo_100.endf_________________________

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=1132, MF= 8, MT=457
     T12 NOT IN RANGE 0.00000E+00 TO 1.00000E+24
     NO DECAY SPECTRA GIVEN

     ___________dec-042_Mo_101.endf_________________________

• Passed All Checks!

     ___________dec-042_Mo_102.endf_________________________

• Passed All Checks!

     ___________dec-042_Mo_103.endf_________________________

• Passed All Checks!

     ___________dec-042_Mo_104.endf_________________________

• Passed All Checks!

     ___________dec-042_Mo_105.endf_________________________

• **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=1137, MF= 8, MT=457
     BETA ENERGY (BE) SUMUP FAILURE
     WHOLE= 1.04900E+06 SUM= 1.92366E+06
     GAMMA ENERGY (GE) SUMUP FAILURE
     WHOLE= 2.40700E+06 SUM= 5.51605E+05
• **fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1138, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 3.62958E+06 SUM= 1.85519E+06 SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

   ...

• **fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1139, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 1
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 6.18517E+06 SUM= 3.02674E+06 SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

   ...

• **fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1140, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 5.15353E+06 SUM= 2.62037E+06 SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

   ...

• **fizcon** Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=1141, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
   NORMALIZATION CHECK INTEGRAL= 1.21793E+00 BEFORE SEQUENCE NUMBER 488
   TOTAL ENERGY RELEASE SUMUP FAILURE

   ...
• Passed All Checks!

• fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1143, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 8.95459E+06  SUM= 5.74689E+06  SEQUENCE NUMBER  1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

   ...

• fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1144, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 7.67481E+06  SUM= 4.31690E+06  SEQUENCE NUMBER  1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

   ...

• fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=1145, MF= 8, MT=457
   NORMALIZATION CHECK INTEGRAL= 1.00846E+00 BEFORE SEQUENCE NUMBER  748
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 9.66374E+06  SUM= 6.44425E+06  SEQUENCE NUMBER  1

   ...

• fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=1146, MF= 8, MT=457
   NORMALIZATION CHECK INTEGRAL= 1.01331E+00 BEFORE SEQUENCE NUMBER  749
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 8.71901E+06  SUM= 5.09569E+06  SEQUENCE NUMBER  1
• **fizcon Errors:**

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=1147, MF=8, MT=457
     TOTAL ENERGY RELEASE SUMUP FAILURE
     WHOLE= 1.10313E+07 SUM= 6.52408E+06 SEQUENCE NUMBER 1
     GAMMA AVERAGE ENERGY SUMUP FAILURE

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=1148, MF=8, MT=457
     NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=1149, MF=8, MT=457
     NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=1150, MF=8, MT=457
     NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=1151, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

===================================================================
dec-043_Tc_088.endf
===================================================================
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1152, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

===================================================================
dec-043_Tc_088m1.endf
===================================================================
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1153, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE

===================================================================
dec-043_Tc_089.endf
===================================================================
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1154, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

===================================================================
dec-043_Tc_089m1.endf
===================================================================
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1155, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

226
Passed All Checks!

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
   ERROR(S) FOUND IN MAT=1157, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
   ERROR(S) FOUND IN MAT=1158, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
   ERROR(S) FOUND IN MAT=1159, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

fizcon Errors:
1. Energies released in decay not adding up!
   ERROR(S) FOUND IN MAT=1160, MF= 8, MT=457
   E.C. MULTIPLICITY SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 9.29600E-01

Passed All Checks!

Passed All Checks!

227
● Passed All Checks!

dec-043_Tc_095m1.endf
● Passed All Checks!

dec-043_Tc_096.endf
● Passed All Checks!

dec-043_Tc_096m1.endf
● Passed All Checks!

dec-043_Tc_097.endf
● Passed All Checks!

dec-043_Tc_097m1.endf
● Passed All Checks!

dec-043_Tc_098.endf
● Passed All Checks!

dec-043_Tc_099.endf

● fizcon Errors:
  1. Energies released in decay not adding up!

fizcon Errors:
  1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=1174, MF= 8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.31732E+06 SUM= 1.30984E+06

dec-043_Tc_101.endf
• Passed All Checks!

dec-043_Tc_102.endf
• Passed All Checks!

dec-043_Tc_102m1.endf
• Passed All Checks!

dec-043_Tc_103.endf
• Passed All Checks!

dec-043_Tc_104.endf
• Passed All Checks!

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1179, MF= 8, MT=457
BETA ENERGY (BE) SUMUP FAILURE
WHOLE= 9.31000E+05 SUM= 1.58450E+06 SEQUENCE NUMBER 3
GAMMA ENERGY (GE) SUMUP FAILURE
WHOLE= 3.22900E+06 SUM= 1.88998E+06 SEQUENCE NUMBER 3

dec-043_Tc_105.endf
• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1180, MF= 8, MT=457
BETA ENERGY (BE) SUMUP FAILURE
WHOLE= 7.64000E+05 SUM= 1.31687E+06 SEQUENCE NUMBER 3
GAMMA ENERGY (GE) SUMUP FAILURE
WHOLE= 1.82500E+06 SUM= 6.74096E+05 SEQUENCE NUMBER 3

dec-043_Tc_106.endf
• fizcon Errors:
  1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=1181, MF= 8, MT=457
BETA ENERGY (BE) SUMUP FAILURE
  WHOLE= 1.45700E+06 SUM= 1.90574E+06 SEQUENCE NUMBER 3
  GAMMA ENERGY (GE) SUMUP FAILURE
  WHOLE= 3.13200E+06 SUM= 2.21778E+06 SEQUENCE NUMBER 3

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1182, MF= 8, MT=457
BETA ENERGY (BE) SUMUP FAILURE
  WHOLE= 1.26300E+06 SUM= 1.92129E+06 SEQUENCE NUMBER 3
  GAMMA ENERGY (GE) SUMUP FAILURE
  WHOLE= 1.82200E+06 SUM= 5.14899E+05 SEQUENCE NUMBER 3

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1183, MF= 8, MT=457
  PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
  TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 7.73857E+06 SUM= 5.02053E+06 SEQUENCE NUMBER 1

fizcon Errors:
1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=1184, MF= 8, MT=457
  PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
  NORMALIZATION CHECK INTEGRAL= 1.01402E+00 BEFORE SEQUENCE NUMBER 482
  TOTAL ENERGY RELEASE SUMUP FAILURE

fizcon Errors:
1. All probability distributions should be normalized to 1, this one isn’t.
ERROR(S) FOUND IN MAT=1185, MF= 8, MT=457
PARITY= 0.000000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
NORMALIZATION CHECK INTEGRAL= 1.01760E+00 BEFORE SEQUENCE NUMBER 597
TOTAL ENERGY RELEASE SUMUP FAILURE
...
ERROR(S) FOUND IN MAT=1189, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00114E+00 BEFORE SEQUENCE NUMBER 866
TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 1.05197E+07 SUM= 6.69522E+06 SEQUENCE NUMBER 1

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1190, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 9.32984E+06 SUM= 5.25187E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE

fizcon Errors:
1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=1191, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00114E+00 BEFORE SEQUENCE NUMBER 1009
TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 1.15195E+07 SUM= 7.06143E+06 SEQUENCE NUMBER 1

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1192, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 1.01739E+07 SUM= 5.75692E+06 SEQUENCE NUMBER 1

fizcon Errors:
1. Energies released in decay not adding up!

232
ERROR(S) FOUND IN MAT=1193, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 1.20370E+07  SUM= 7.42141E+06  SEQUENCE NUMBER  1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

--------------------------------------------------dec-044_Ru_087.endf--------------------------------------------------

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1194, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

--------------------------------------------------dec-044_Ru_088.endf--------------------------------------------------

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1195, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

--------------------------------------------------dec-044_Ru_089.endf--------------------------------------------------

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1196, MF= 8, MT=457
   7 IN RTYPE =  2.70000E+00 IS INVALID  NEAR SEQUENCE NUMBER  6
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

--------------------------------------------------dec-044_Ru_090.endf--------------------------------------------------

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1197, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

--------------------------------------------------dec-044_Ru_091.endf--------------------------------------------------
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1198, MF=8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1199, MF=8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=1199, MF=1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
SEQUENCE NUMBER 2

• Passed All Checks!

• Passed All Checks!

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1202, MF=8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID
NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 7

• **fizcon** Errors:

1. Beta spectrum integral too small
ERROR(S) FOUND IN MAT=1203, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 3.55685E-01 E= 1.13550E+06 I= 5 SEQUENCE NUMBER 18

dec-044_Ru_095.endf

• Passed All Checks!

dec-044_Ru_096.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1205, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

dec-044_Ru_097.endf

• Passed All Checks!

dec-044_Ru_098.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1207, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

dec-044_Ru_099.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1208, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

dec-044_Ru_100.endf
• **fizcon Non-errors:**
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1209, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
 WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER  4
 NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

• **fizcon Non-errors:**
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1210, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
 WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER  4
 NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

• **fizcon Non-errors:**
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1211, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
 WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER  4
 NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

• **Passed All Checks!**

```
de-044_Ru_103m1.endf
```

• **Passed All Checks!**

```
de-044_Ru_104.endf
```

• **fizcon Non-errors:**
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=1214, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 4

-- dec-044_Ru_105.endf --
• Passed All Checks!

-- dec-044_Ru_106.endf --
• Passed All Checks!

-- dec-044_Ru_107.endf --
• Passed All Checks!

-- dec-044_Ru_108.endf --
• Passed All Checks!

-- dec-044_Ru_109.endf --
• Passed All Checks!

-- dec-044_Ru_110.endf --
• Passed All Checks!

-- dec-044_Ru_111.endf --
• Passed All Checks!

-- dec-044_Ru_112.endf --
• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=1221, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0
NORMALIZATION CHECK INTEGRAL= 1.00108E+00 BEFORE SEQUENCE NUMBER 319
TOTAL ENERGY RELEASE SUMUP FAILURE
...

-- dec-044_Ru_112.endf --
• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1222, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLES= 4.10657E+06 SUM= 2.22381E+06
GAMMA AVERAGE ENERGY SUMUP FAILURE
...
• Passed All Checks!

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=1224, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 6

• fizcon Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=1225, MF= 8, MT=457
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 5.49773E+06 SUM= 3.13397E+06  SEQUENCE NUMBER 1
    GAMMA AVERAGE ENERGY SUMUP FAILURE

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

    ERROR(S) FOUND IN MAT=1226, MF= 8, MT=457
    NORMALIZATION CHECK INTEGRAL= 1.00738E+00 BEFORE SEQUENCE NUMBER 508
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 8.03761E+06 SUM= 5.53311E+06  SEQUENCE NUMBER 1

• fizcon Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=1227, MF= 8, MT=457
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 6.57039E+06 SUM= 3.83160E+06  SEQUENCE NUMBER 1
    GAMMA AVERAGE ENERGY SUMUP FAILURE

...
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1228, MF=8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE=9.30373E+06 SUM=5.28652E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1229, MF=8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE=7.55166E+06 SUM=4.23283E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE

1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=1230, MF=8, MT=457
NORMALIZATION CHECK INTEGRAL=1.01184E+00 BEFORE SEQUENCE NUMBER 746
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE=1.01284E+07 SUM=6.50864E+06 SEQUENCE NUMBER 1

1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=1231, MF=8, MT=457
NORMALIZATION CHECK INTEGRAL=1.00308E+00 BEFORE SEQUENCE NUMBER 742
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE=8.62287E+06 SUM=4.85900E+06 SEQUENCE NUMBER 1
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1232, MF= 8, MT=457
NO DECAY SPECTRA GIVENSEQUENCE NUMBER 5
```

dec-045_Rh_090.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1233, MF= 8, MT=457
NO DECAY SPECTRA GIVENSEQUENCE NUMBER 5
```

dec-045_Rh_090m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1234, MF= 8, MT=457
NO DECAY SPECTRA GIVENSEQUENCE NUMBER 5
```

dec-045_Rh_091.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1235, MF= 8, MT=457
NO DECAY SPECTRA GIVENSEQUENCE NUMBER 5
```

dec-045_Rh_092.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

240
ERROR(S) FOUND IN MAT=1236, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
PARITY= 0.00000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN

Dec-045_Rh_093.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1237, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

Dec-045_Rh_094.endf

• Passed All Checks!

Dec-045_Rh_094m1.endf

• fizcon Non-errors:
  1. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=1239, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE

Dec-045_Rh_095.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1240, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

Dec-045_Rh_095m1.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1241, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

Dec-045_Rh_095m1.endf

241
• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ```
     ERROR(S) FOUND IN MAT=1242, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 5
     ```

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ```
     ERROR(S) FOUND IN MAT=1243, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 6
     ```

• Passed All Checks!

• **fizcon** Errors:

  1. Beta spectrum integral too small

     ```
     ERROR(S) FOUND IN MAT=1245, MF= 8, MT=457
     FT VALUE TOO SMALL
     FT= 2.77443E+01 E= 1.21385E+06 I= 80
     SEQUENCE NUMBER 171
     ```

• Passed All Checks!

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ```
     ERROR(S) FOUND IN MAT=1247, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 6
     ```

  2. We don’t know the energy of the isomer in question. FIZCON should just lighten up and let science progress
ERROR(S) FOUND IN MAT=1247, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1248, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1249, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Errors:
  1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=1250, MF= 8, MT=457
FT VALUE TOO SMALL SEQUENCE NUMBER 370
FT= 9.38585E+01 E= 1.16561E+06 I= 151 SEQUENCE NUMBER 370

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1251, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• Passed All Checks!

243
Passed All Checks!

• dec-045_Rh_102.endf

Passed All Checks!

• dec-045_Rh_102m1.endf

Passed All Checks!

• dec-045_Rh_103.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1256, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00
   SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

Passed All Checks!

• dec-045_Rh_103m1.endf

fizcon Errors:

1. Beta spectrum integral too small

   ERROR(S) FOUND IN MAT=1258, MF= 8, MT=457
   FT VALUE TOO SMALL
   SEQUENCE NUMBER 63
   FT= 9.05247E-01 E= 1.13900E+06 I= 25

Passed All Checks!

• dec-045_Rh_104.endf

Passed All Checks!

• dec-045_Rh_104m1.endf

Passed All Checks!

• dec-045_Rh_105.endf

Passed All Checks!

• dec-045_Rh_105m1.endf

Passed All Checks!

• dec-045_Rh_106.endf

Passed All Checks!

• dec-045_Rh_106m1.endf
Passed All Checks!

• dec-045_Rh_107.endf

Passed All Checks!

• dec-045_Rh_108.endf

Passed All Checks!

• dec-045_Rh_108m1.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1266, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN                      SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress.

   ERROR(S) FOUND IN MAT=1266, MF= 1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE   SEQUENCE NUMBER 2

Passed All Checks!

• dec-045_Rh_109.endf

Passed All Checks!

• dec-045_Rh_110.endf

Passed All Checks!

• dec-045_Rh_110m1.endf

fizcon Non-errors:

1. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress.

   ERROR(S) FOUND IN MAT=1269, MF= 1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE   SEQUENCE NUMBER 2

Passed All Checks!

• dec-045_Rh_111.endf

fizcon Errors:

• dec-045_Rh_112.endf
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1271, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER 4
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 6.58851E+06 SUM= 4.40083E+06  SEQUENCE NUMBER 1

---

• Passed All Checks!

---

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1273, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER 4
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 4.82356E+06 SUM= 2.47845E+06  SEQUENCE NUMBER 1

---

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1274, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER 4
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 7.77758E+06 SUM= 5.12796E+06  SEQUENCE NUMBER 1

---

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1275, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER 4
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 6.19556E+06 SUM= 3.40643E+06  SEQUENCE NUMBER 1
• fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

```
ERROR(S) FOUND IN MAT=1276, MF= 8, MT=457
  PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER  4
  NORMALIZATION CHECK INTEGRAL= 1.00901E+00 BEFORE SEQUENCE NUMBER  600
  TOTAL ENERGY RELEASE SUMUP FAILURE
...
```

```
deck-045_Rh_116m1.endf
```

• Passed All Checks!

```
deck-045_Rh_117.endf
```

• fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

```
ERROR(S) FOUND IN MAT=1278, MF= 8, MT=457
  PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER  4
  NORMALIZATION CHECK INTEGRAL= 1.00122E+00 BEFORE SEQUENCE NUMBER  617
  TOTAL ENERGY RELEASE SUMUP FAILURE
...
```

```
deck-045_Rh_118.endf
```

• fizcon Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=1279, MF= 8, MT=457
  TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 1.02856E+07 SUM= 6.39283E+06  SEQUENCE NUMBER  1
    GAMMA AVERAGE ENERGY SUMUP FAILURE
...
```

```
deck-045_Rh_119.endf
```

• fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

```
ERROR(S) FOUND IN MAT=1280, MF= 8, MT=457
  PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER  4
  NORMALIZATION CHECK INTEGRAL= 1.00900E+00 BEFORE SEQUENCE NUMBER  740
  TOTAL ENERGY RELEASE SUMUP FAILURE
...
```

```
deck-045_Rh_119.endf
```

247
1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=1281, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00311E+00 BEFORE SEQUENCE NUMBER 838
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 1.13387E+07 SUM= 7.17187E+06 SEQUENCE NUMBER 1

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1282, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 9.40186E+06 SUM= 5.15901E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1283, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 1.17982E+07 SUM= 7.35122E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1284, MF= 8, MT=457
E(MAXIMUM) > Q E= 1.05600E+07 Q= 1.05620E+04 SEQUENCE NUMBER 10
E(MAXIMUM) > Q E= 1.02000E+07 Q= 1.05620E+04 SEQUENCE NUMBER 367
E(MAXIMUM) > Q E= 6.57000E+06 Q= 6.57100E+03 SEQUENCE NUMBER 712

248
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

**ERROR(S) FOUND IN MAT=1285, MF= 8, MT=457**

- NO DECAY SPECTRA GIVEN
- SEQUENCE NUMBER 5

---

**dec-046_Pd_092.endf**

2. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

**ERROR(S) FOUND IN MAT=1286, MF= 8, MT=457**

- NO DECAY SPECTRA GIVEN
- SEQUENCE NUMBER 5

---

**dec-046_Pd_093.endf**

3. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

**ERROR(S) FOUND IN MAT=1287, MF= 8, MT=457**

- NEGATIVE SPIN NOT ALLOWED
- SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
- PARITY= 0.000000E+00 NOT +1.0 OR -1.0
- 7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
- NO DECAY SPECTRA GIVEN

---

**dec-046_Pd_094.endf**

4. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

**ERROR(S) FOUND IN MAT=1288, MF= 8, MT=457**

- NO DECAY SPECTRA GIVEN
- SEQUENCE NUMBER 5

---

**dec-046_Pd_095.endf**

5. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.
ERROR(S) FOUND IN MAT=1289, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• \textit{fizcon} Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1290, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID
NO DECAY SPECTRA GIVEN

• Passed All Checks!

dec-046\_Pd\_097.endf

• Passed All Checks!

dec-046\_Pd\_098.endf

• Passed All Checks!

dec-046\_Pd\_099.endf

• \textit{fizcon} Errors:

1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=1294, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 2.85104E+01 E= 1.21200E+06 I= 118

• Passed All Checks!

dec-046\_Pd\_101.endf

• Passed All Checks!

dec-046\_Pd\_102.endf

• \textit{fizcon} Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=1297, MF= 8, MT=457  
BRANCHING RATIO SUMUP FAILURE  
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4  
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!

ERROR(S) FOUND IN MAT=1299, MF= 8, MT=457  
BRANCHING RATIO SUMUP FAILURE  
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4  
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1300, MF= 8, MT=457  
BRANCHING RATIO SUMUP FAILURE  
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4  
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1301, MF= 8, MT=457  
BRANCHING RATIO SUMUP FAILURE  
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4  
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!

251
Passed All Checks!

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1304, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1305, MF= 8, MT=457
   BETA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 3.60789E+05  SUM= 3.59843E+05

Passed All Checks!

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1307, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

Passed All Checks!

Passed All Checks!
• Passed All Checks!

dec-046_Pd_113.endf

• Passed All Checks!

dec-046_Pd_113m1.endf

• Passed All Checks!

dec-046_Pd_114.endf

• Passed All Checks!

dec-046_Pd_115.endf

• fizcon Errors:

  1. All probability distributions should be normalized to 1, this one isn’t.

      ERROR(S) FOUND IN MAT=1314, MF= 8, MT=457
      PARITY= 0.00000E+00 NOT +1.0 OR -1.0             SEQUENCE NUMBER    4
      NORMALIZATION CHECK INTEGRAL= 1.00244E+00 BEFORE SEQUENCE NUMBER 251
      TOTAL ENERGY RELEASE SUMUP FAILURE

      ...

• Passed All Checks!

dec-046_Pd_116.endf

• Passed All Checks!

dec-046_Pd_117.endf

• fizcon Errors:

  1. All probability distributions should be normalized to 1, this one isn’t.

      ERROR(S) FOUND IN MAT=1317, MF= 8, MT=457
      PARITY= 0.00000E+00 NOT +1.0 OR -1.0             SEQUENCE NUMBER    4
      NORMALIZATION CHECK INTEGRAL= 1.00114E+00 BEFORE SEQUENCE NUMBER 321
      TOTAL ENERGY RELEASE SUMUP FAILURE

      ...

253
dec-046_Pd_117m1.endf

• Passed All Checks!

dec-046_Pd_118.endf

• Passed All Checks!

dec-046_Pd_119.endf

• Fizcon Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=1320, MF= 8, MT=457
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 7.23803E+06   SUM= 3.99814E+06
    GAMMA AVERAGE ENERGY SUMUP FAILURE
    ...

dec-046_Pd_120.endf

• Fizcon Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=1321, MF= 8, MT=457
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 5.34155E+06   SUM= 2.92229E+06
    GAMMA AVERAGE ENERGY SUMUP FAILURE
    ...

dec-046_Pd_121.endf

• Fizcon Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=1322, MF= 8, MT=457
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 8.14552E+06   SUM= 5.46452E+06
    GAMMA AVERAGE ENERGY SUMUP FAILURE
    ...

dec-046_Pd_122.endf

• Fizcon Errors:
  1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=1323, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 6.41073E+06 SUM= 3.70334E+06 SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE
...

dec-046_Pd_123.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1324, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 8.87724E+06 SUM= 6.04340E+06 SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE
...

dec-046_Pd_124.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1325, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 7.39792E+06 SUM= 4.57874E+06 SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE
...

dec-046_Pd_125.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1326, MF= 8, MT=457
E(MAXIMUM) > Q  E= 9.27000E+06 Q= 9.64400E+03 SEQUENCE NUMBER 9
E(MAXIMUM) > Q  E= 5.41000E+06 Q= 9.64400E+03 SEQUENCE NUMBER 323
E(MAXIMUM) > Q  E= 2.97000E+06 Q= 3.24000E+03 SEQUENCE NUMBER 508
...

dec-046_Pd_126.endf

• fizcon Errors:

1. Energies released in decay not adding up!

255
ERROR(S) FOUND IN MAT=1327, MF= 8, MT=457  
E(MAXIMUM) > Q  
E= 7.41000E+06  Q= 7.64300E+03  
SEQUENCE NUMBER  9  
E(MAXIMUM) > Q  
E= 5.39000E+06  Q= 7.64300E+03  
SEQUENCE NUMBER  261  
E(MAXIMUM) > Q  
E= 2.91000E+06  Q= 3.36300E+03  
SEQUENCE NUMBER  445  
...

• fizcon Non-errors:  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1328, MF= 8, MT=457  
NO DECAY SPECTRA GIVEN  
SEQUENCE NUMBER  6

• fizcon Non-errors:  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1329, MF= 8, MT=457  
NO DECAY SPECTRA GIVEN  
SEQUENCE NUMBER  5

• fizcon Non-errors:  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1330, MF= 8, MT=457  
7 IN RTYPE =  2.70000E+00 IS INVALID  
NEAR SEQUENCE NUMBER  6  
NO DECAY SPECTRA GIVEN  
SEQUENCE NUMBER  6

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=1330, MF= 1, MT=451  
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE  
SEQUENCE NUMBER  2

• fizcon Non-errors:  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

256
2. We don't know the energy of the isomer in question, FIZCON should just lighten up and let science progress.

```plaintext
ERROR(S) FOUND IN MAT=1331, MF= 1, MT=451
ELIS NOT IN RANGE 0.00000E+00 TO 3.00000E+06 SEQUENCE NUMBER 3
```

```
• dec-047_Ag_095m1.endf
• Passed All Checks!
```

```
• dec-047_Ag_095m2.endf
• Passed All Checks!
```

```
• dec-047_Ag_095m3.endf
```

• FIZCON Errors:

1. Energies released in decay not adding up!

```plaintext
ERROR(S) FOUND IN MAT=1335, MF= 8, MT=457
SPI NOT IN RANGE 0.00000E+00 TO 1.60000E+01 SEQUENCE NUMBER 5
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 4.86003E+06 SUM= 4.08870E+06 SEQUENCE NUMBER 1
```

• FIZCON Non-errors:

1. We don't know the energy of the isomer in question, FIZCON should just lighten up and let science progress.

```plaintext
ERROR(S) FOUND IN MAT=1335, MF= 1, MT=451
ELIS NOT IN RANGE 0.00000E+00 TO 3.00000E+06 SEQUENCE NUMBER 3
```
fizcon: Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1336, MF= 8, MT=457
 7 IN RTYPE = 2.70000E+00 IS INVALID    NEAR SEQUENCE NUMBER  6
NO DECAY SPECTRA GIVEN               SEQUENCE NUMBER  6
```

fizcon: Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1337, MF= 8, MT=457
 7 IN RTYPE = 2.70000E+00 IS INVALID    NEAR SEQUENCE NUMBER  6
NO DECAY SPECTRA GIVEN               SEQUENCE NUMBER  6
```

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

```
ERROR(S) FOUND IN MAT=1337, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE   SEQUENCE NUMBER  2
```

Passed All Checks!

Passed All Checks!

fizcon: Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1340, MF= 8, MT=457
NO DECAY SPECTRA GIVEN               SEQUENCE NUMBER  5
```

fizcon: Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=1341, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

• `dec-047_Ag_100.endf`

  **Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=1342, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

• `dec-047_Ag_100m1.endf`

  **Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=1343, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6
```

• `dec-047_Ag_101.endf`

  **Passed All Checks!**

• `dec-047_Ag_101m1.endf`

  **Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=1345, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

• `dec-047_Ag_102.endf`

  **Passed All Checks!**

• `dec-047_Ag_102m1.endf`

  **Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=1347, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 6

• Passed All Checks!

fizcon
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1349, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

• Passed All Checks!

fizcon
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1351, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 6

• Passed All Checks!

fizcon
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

Errors:
1. Energies released in decay not adding up!

Passed All Checks!
• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

fizcon Errors:

1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=1369, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 7.15840E+05  E= 1.63090E+06  I= 42  SEQUENCE NUMBER 92
BETA MULTIPLICITY SUMUP FAILURE
WHOLE= 1.00000E+00  SUM= 1.00070E+00
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.14997E+06  SUM= 2.09459E+06

262
Passed All Checks!

**dec-047_Ag_117m1.endf**

- **fizcon** Errors:

  1. Energies released in decay not adding up!

    ```
    ERROR(S) FOUND IN MAT=1377, MF= 8, MT=457
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 3.98375E+06 SUM= 3.23835E+06  SEQUENCE NUMBER  1
    BETA MULTIPLICITY SUMUP FAILURE
    WHOLE= 9.40000E-01 SUM= 6.94284E-01
    BETA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 1.25052E+06 SUM= 1.02584E+06
    ```

**dec-047_Ag_118m1.endf**

- **fizcon** Errors:

  1. Energies released in decay not adding up!

    ```
    ERROR(S) FOUND IN MAT=1378, MF= 8, MT=457
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 7.15186E+06 SUM= 4.80115E+06  SEQUENCE NUMBER  1
    BETA MULTIPLICITY SUMUP FAILURE
    WHOLE= 5.90000E-01 SUM= 5.25626E-01
    BETA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 1.13136E+06 SUM= 9.75394E+05
    ```

**dec-047_Ag_119m1.endf**

- **fizcon** Non-errors:

  263
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1381, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

```
ERROR(S) FOUND IN MAT=1381, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2
```

---

**fizcon Errors:**

1. All probability distributions should be normalized to 1, this one isn’t.

```
ERROR(S) FOUND IN MAT=1382, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
NORMALIZATION CHECK INTEGRAL= 1.16998E+00 BEFORE SEQUENCE NUMBER 509
TOTAL ENERGY RELEASE SUMUP FAILURE
```

---

**fizcon Errors:**

1. Beta spectrum integral too small

```
ERROR(S) FOUND IN MAT=1383, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 3.52498E+05 E= 6.30048E+06 I= 56 SEQUENCE NUMBER 123
```

---

**Passed All Checks!**
• \texttt{fizcon} Errors:

1. Energies released in decay not adding up!

\texttt{ERROR(S) FOUND IN MAT=1386, MF= 8, MT=457}
\texttt{PARITY= 0.00000E+00 NOT +1.0 OR -1.0} \quad \text{SEQUENCE NUMBER 4}
\texttt{TOTAL ENERGY RELEASE SUMUP FAILURE}
\texttt{WHOLE= 9.58626E+06 SUM= 6.39459E+06} \quad \text{SEQUENCE NUMBER 1}

...
• **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=1390, MF= 8, MT=457
     TOTAL ENERGY RELEASE SUMUP FAILURE
     WHOLE= 1.11724E+07 SUM= 7.50572E+06 SEQUENCE NUMBER 1
     GAMMA AVERAGE ENERGY SUMUP FAILURE

     ...

• **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=1391, MF= 8, MT=457
     TOTAL ENERGY RELEASE SUMUP FAILURE
     WHOLE= 9.45199E+06 SUM= 5.60352E+06 SEQUENCE NUMBER 1
     GAMMA AVERAGE ENERGY SUMUP FAILURE

     ...

• **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=1392, MF= 8, MT=457
     TOTAL ENERGY RELEASE SUMUP FAILURE
     WHOLE= 1.18909E+07 SUM= 7.86740E+06 SEQUENCE NUMBER 1
     GAMMA AVERAGE ENERGY SUMUP FAILURE

     ...

• **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=1393, MF= 8, MT=457
     PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
     TOTAL ENERGY RELEASE SUMUP FAILURE
     WHOLE= 1.03790E+07 SUM= 5.97707E+06 SEQUENCE NUMBER 1

     ...

266
• **fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1394, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 1.01612E+07  SUM= 5.68002E+06  SEQUENCE NUMBER  1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

   ...  

   `dec-048_Cd_095.endf`

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1395, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID  NEAR SEQUENCE NUMBER  6
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

   `dec-048_Cd_096.endf`

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1396, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

   `dec-048_Cd_097.endf`

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1397, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID  NEAR SEQUENCE NUMBER  6
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

   `dec-048_Cd_098.endf`

• Passed All Checks!

   `dec-048_Cd_099.endf`

• **fizcon** Non-errors:

267
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=1399, MF=8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 7
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

• Passed All Checks!

• Passed All Checks!

• fizcon Errors:

1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=1402, MF=8, MT=457
FT VALUE TOO SMALL SEQUENCE NUMBER 79
FT = 5.19098E+00 E = 1.21840E+06 I = 30 SEQUENCE NUMBER 79
FT VALUE TOO SMALL SEQUENCE NUMBER 81
FT = 1.09632E+02 E = 1.54141E+06 I = 31 SEQUENCE NUMBER 81

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=1403, MF=8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=1404, MF=8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1405, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1406, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

fizcon Errors:

1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=1407, MF= 8, MT=457
FT VALUE TOO SMALL SEQUENCE NUMBER 114
   FT= 1.72073E+02 E= 1.32387E+06 I= 44 SEQUENCE NUMBER 114

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1408, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

Passed All Checks!

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=1410, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• dec-048_Cd_111.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1411, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!
• dec-048_Cd_111m1.endf

• dec-048_Cd_112.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1413, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!
• dec-048_Cd_113.endf
• Passed All Checks!
• dec-048_Cd_113m1.endf

• dec-048_Cd_114.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=1416, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00

SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN

dec-048_Cd_115.endf
• Passed All Checks!

dec-048_Cd_115m1.endf
• Passed All Checks!

dec-048_Cd_116.endf
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1419, MF= 8, MT=457
T12 NOT IN RANGE 0.00000E+00 TO 1.00000E+24

SEQUENCE NUMBER 3
NO DECAY SPECTRA GIVEN

dec-048_Cd_117m1.endf
• Passed All Checks!

dec-048_Cd_118.endf
• Passed All Checks!

dec-048_Cd_119m1.endf
• Passed All Checks!

dec-048_Cd_120.endf
• Passed All Checks!

dec-048_Cd_121m1.endf
• Passed All Checks!

271
• Passed All Checks!
  ______________________dec-048_Cd_122.endf___________________________

• Passed All Checks!
  ______________________dec-048_Cd_123.endf___________________________

• Passed All Checks!
  ______________________dec-048_Cd_123m1.endf_________________________

• Passed All Checks!
  ______________________dec-048_Cd_124.endf___________________________

• **fizcon** Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

    ERROR(S) FOUND IN MAT=1431, MF= 8, MT=457
    NORMALIZATION CHECK INTEGRAL= 1.00189E+00 BEFORE SEQUENCE NUMBER  232
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 4.17129E+06 SUM= 2.92539E+06 SEQUENCE NUMBER  1
    ...

  ______________________dec-048_Cd_125.endf___________________________

• Passed All Checks!
  ______________________dec-048_Cd_125m1.endf_________________________

• Passed All Checks!
  ______________________dec-048_Cd_126.endf___________________________

• **fizcon** Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=1434, MF= 8, MT=457
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 5.55731E+06 SUM= 3.84398E+06 SEQUENCE NUMBER  1
    GAMMA AVERAGE ENERGY SUMUP FAILURE
    ...

  ______________________dec-048_Cd_127.endf___________________________

• **fizcon** Errors:
  1. Energies released in decay not adding up!

  272
ERROR(S) FOUND IN MAT=1435, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0      SEQUENCE NUMBER  4
E(MAXIMUM) > Q  E= 1.31000E+06  Q= 1.30704E+06 SEQUENCE NUMBER  445
TOTAL ENERGY RELEASE SUMUP FAILURE

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1436, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 7.05580E+06 SUM= 4.77490E+06 SEQUENCE NUMBER  1
GAMMA AVERAGE ENERGY SUMUP FAILURE

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1437, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0      SEQUENCE NUMBER  4
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 9.48341E+06 SUM= 7.11248E+06 SEQUENCE NUMBER  1

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1438, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 8.16990E+06 SUM= 5.13658E+06 SEQUENCE NUMBER  1
GAMMA AVERAGE ENERGY SUMUP FAILURE

• fizcon Errors:
  1. Energies released in decay not adding up!

273
ERROR(S) FOUND IN MAT=1439, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 8.42309E+06 SUM= 5.29633E+06 SEQUENCE NUMBER 1
...

dec-048_Cd_132.endf

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1440, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 9.10058E+06 SUM= 6.26188E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE
...

dec-049_In_097.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1441, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

dec-049_In_098.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1442, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

dec-049_In_098m1.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1443, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

274
2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

```
ERROR(S) FOUND IN MAT=1443, MF= 1, MT=451
  ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE  SEQUENCE NUMBER  2
```

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1444, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1445, MF= 8, MT=457
  NEGATIVE SPIN NOT ALLOWED  SEQUENCE NUMBER  4
  SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL  SEQUENCE NUMBER  4
  PARITY= 0.000000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER  4
  7 IN RTYPE = 2.700000E+00 IS INVALID NEAR SEQUENCE NUMBER  6
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6
```

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1446, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

• Passed All Checks!

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=1448, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• dec-049_In_103m1.endf

- fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1449, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

• dec-049_In_104.endf

- fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1450, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• dec-049_In_104m1.endf

- fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1451, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

• dec-049_In_105.endf

- Passed All Checks!

• dec-049_In_105m1.endf

- Passed All Checks!

• dec-049_In_106.endf

- fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1454, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

276
• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1455, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5
```

• Passed All Checks!

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1458, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5
```

• Passed All Checks!

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1459, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5
```

• Passed All Checks!
• **fizcon** Non-errors:
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

  ![](error.png)

  ERROR(S) FOUND IN MAT=1463, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN

  NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

  dec-049_In_110m1.endf

  • Passed All Checks!

  dec-049_In_111.endf

  • Passed All Checks!

  dec-049_In_111m1.endf

  • Passed All Checks!

  dec-049_In_112.endf

  • Passed All Checks!

  dec-049_In_112m1.endf

  • Passed All Checks!

  dec-049_In_113.endf

  • Passed All Checks!

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

  ![](error.png)

  ERROR(S) FOUND IN MAT=1469, MF= 8, MT=457
  BRANCHING RATIO SUMUP FAILURE

  BRANCHING RATIO SUMUP FAILURE

  WHOLE= 1.00000E+00 SUM= 0.00000E+00

  NO DECAY SPECTRA GIVEN

  dec-049_In_113m1.endf

  • Passed All Checks!

• **fizcon** Errors:

  1. Energies released in decay not adding up!

  ![](error.png)

  ERROR(S) FOUND IN MAT=1471, MF= 8, MT=457
  BETA AVERAGE ENERGY SUMUP FAILURE

  BETA AVERAGE ENERGY SUMUP FAILURE

  WHOLE= 7.74080E+05 SUM= 7.70306E+05

278
• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

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dec-049_In_118m2.endf

• Passed All Checks!

dec-049_In_119.endf

• Passed All Checks!

dec-049_In_119m1.endf

• Passed All Checks!

dec-049_In_120.endf

• Passed All Checks!

dec-049_In_120m1.endf

• Passed All Checks!

dec-049_In_120m2.endf

• Passed All Checks!

dec-049_In_121.endf

• Passed All Checks!

dec-049_In_121m1.endf

• Passed All Checks!

dec-049_In_122.endf

• Passed All Checks!

dec-049_In_122m1.endf

• Passed All Checks!

dec-049_In_122m2.endf

• Passed All Checks!

fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1493, MF= 8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.36741E+06 SUM= 1.21959E+06

dec-049_In_123.endf

• Passed All Checks!

dec-049_In_123m1.endf
• Passed All Checks!

-----------------dec-049_In_124.endf-------------------

• Passed All Checks!

-----------------dec-049_In_124m1.endf-------------------

• Passed All Checks!

-----------------dec-049_In_125.endf-------------------

• Passed All Checks!

-----------------dec-049_In_125m1.endf-------------------

• Passed All Checks!

-----------------dec-049_In_126.endf-------------------

• Passed All Checks!

-----------------dec-049_In_126m1.endf-------------------

• Passed All Checks!

-----------------dec-049_In_127.endf-------------------

• Passed All Checks!

-----------------dec-049_In_127m1.endf-------------------

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1503, MF= 8, MT=457
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.33106E+03 SUM= 1.37650E+03

-----------------dec-049_In_128.endf-------------------

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1504, MF= 8, MT=457
E(MAXIMUM) > Q  E= 1.04000E+06  Q= 1.03795E+06  SEQUENCE NUMBER  165
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 4.52148E+01 SUM= 4.74892E+01

-----------------dec-049_In_128m1.endf-------------------

• fizcon Errors:
1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=1505, MF= 8, MT=457
FT VALUE TOO SMALL
SEQUENCE NUMBER 117
FT= 8.89800E+05  E= 6.48711E+06  I= 51  SEQUENCE NUMBER 117
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 7.26337E+01  SUM= 7.54339E+01

dec-049_In_129.endf

• fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=1506, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00161E+00 BEFORE SEQUENCE NUMBER 208
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.35382E+03  SUM= 1.37709E+03

dec-049_In_129m1.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1507, MF= 8, MT=457
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.16695E+04  SUM= 1.18875E+04

dec-049_In_130.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1508, MF= 8, MT=457
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 4.97300E+03  SUM= 5.05877E+03

dec-049_In_130m1.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1509, MF= 8, MT=457
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 8.81837E+03  SUM= 8.97051E+03
• **fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1510, MF= 8, MT=457  
   NEUTRON AVERAGE ENERGY SUMUP FAILURE  
   WHOLE= 4.63392E+03  SUM= 4.75332E+03

...

• **fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1511, MF= 8, MT=457  
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0  
   TOTAL ENERGY RELEASE SUMUP FAILURE  
   WHOLE= 9.11788E+06  SUM= 5.68793E+06

...

• **fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1512, MF= 8, MT=457  
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0  
   TOTAL ENERGY RELEASE SUMUP FAILURE  
   WHOLE= 9.41988E+06  SUM= 5.67984E+06

...

• **fizcon** Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=1513, MF= 8, MT=457  
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0  
   NORMALIZATION CHECK INTEGRAL= 1.00821E+00 BEFORE SEQUENCE NUMBER 685  
   TOTAL ENERGY RELEASE SUMUP FAILURE

...

**fizcon** Non-errors:

1. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress
ERROR(S) FOUND IN MAT=1513, MF= 1, MT=451
ELIS NOT IN RANGE  0.00000E+00 TO  3.00000E+06 SEQUENCE NUMBER  3

• *fizcon* Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1514, MF= 8, MT=457
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 6.38584E+04 SUM= 6.46100E+04

• *fizcon* Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1515, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER  4
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 1.07150E+07 SUM= 6.69367E+06

• *fizcon* Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1516, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER  4
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 1.10424E+07 SUM= 6.69083E+06

• *fizcon* Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1517, MF= 8, MT=457
E(MAXIMUM) > Q  E= 1.42900E+07 Q= 1.07520E+07 SEQUENCE NUMBER  10
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 9.65931E+06 SUM= 6.06297E+06

...
• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1518, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 1.07116E+07 SUM= 6.85156E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE

...
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=1522, MF=8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

---

- `fizcon` Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=1523, MF=8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6
```

---

- Passed All Checks!

---

- `fizcon` Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=1525, MF=8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

---

- `fizcon` Errors:

1. Beta spectrum integral too small

```plaintext
ERROR(S) FOUND IN MAT=1526, MF=8, MT=457
FT VALUE TOO SMALL
FT=3.87786E+01 E=1.32170E+06 I=16
SEQUENCE NUMBER 44
```

---

- `fizcon` Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=1527, MF=8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```
• **fizcon** Errors:

1. Beta spectrum integral too small

   ERROR(S) FOUND IN MAT=1528, MF= 8, MT=457
   FT VALUE TOO SMALL
   SEQUENCE NUMBER 48
   FT= 1.04925E+01 E= 1.37820E+06 I= 15

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1529, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

• Passed All Checks!

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1531, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1532, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00
   SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

• **fizcon** Errors:

287
1. A discrete gamma energy is not energetically possible for the given Q value

```
ERROR(S) FOUND IN MAT=1533, MF= 8, MT=457
  E(DISCRETE) > Q  E= 6.46830E+05  Q= 6.44901E+05  SEQUENCE NUMBER  16
```

```
• Passed All Checks!
```

```
• fizzcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1535, MF= 8, MT=457
  BRANCHING RATIO SUMUP FAILURE
    WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER  4
    NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

```
• fizzcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1536, MF= 8, MT=457
  BRANCHING RATIO SUMUP FAILURE
    WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER  4
    NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

```
• fizzcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1537, MF= 8, MT=457
  BRANCHING RATIO SUMUP FAILURE
    WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER  4
    NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

```
• fizzcon Non-errors:
```

288
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1538, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
  WHOLE= 1.00000E+00 SUM= 0.00000E+00  SEQUENCE NUMBER 4
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5
```

```
Passed All Checks!
```

```
dec-050_Sn_117m1.endf
```

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1540, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
  WHOLE= 1.00000E+00 SUM= 0.00000E+00  SEQUENCE NUMBER 4
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5
```

```
dec-050_Sn_118.endf
```

• fizcon Non-errors:

```
ERROR(S) FOUND IN MAT=1541, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
  WHOLE= 1.00000E+00 SUM= 0.00000E+00  SEQUENCE NUMBER 4
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5
```

```
dec-050_Sn_119.endf
```

• Passed All Checks!

```
dec-050_Sn_119m1.endf
```

• fizcon Non-errors:

```
ERROR(S) FOUND IN MAT=1543, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
  WHOLE= 1.00000E+00 SUM= 0.00000E+00  SEQUENCE NUMBER 4
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5
```

```
dec-050_Sn_120.endf
```

• Passed All Checks!
dec-050_Sn_121.endf

**Passed All Checks!**

dec-050_Sn_121m1.endf

**Passed All Checks!**

dec-050_Sn_122.endf

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1546, MF= 8, MT=457  
   BRANCHING RATIO SUMUP FAILURE  
   WHOLE= 1.00000E+00 SUM= 0.00000E+00  
   NO DECAY SPECTRA GIVEN

dec-050_Sn_123.endf

**Passed All Checks!**

dec-050_Sn_123m1.endf

**fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1548, MF= 8, MT=457  
   BETA AVERAGE ENERGY SUMUP FAILURE  
   WHOLE= 4.61254E+05 SUM= 4.59647E+05

dec-050_Sn_124.endf

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1549, MF= 8, MT=457  
   BRANCHING RATIO SUMUP FAILURE  
   WHOLE= 1.00000E+00 SUM= 0.00000E+00  
   NO DECAY SPECTRA GIVEN

dec-050_Sn_125.endf

**Passed All Checks!**

dec-050_Sn_125m1.endf

290
• Passed All Checks!
• Passed All Checks!
• Passed All Checks!
• Passed All Checks!
• Passed All Checks!
• Passed All Checks!
• Passed All Checks!

• **fizcon** Errors:

  1. All probability distributions should be normalized to 1, this one isn’t.

    ERROR(S) FOUND IN MAT=1561, MF= 8, MT=457
    PARITY= 0.000000E+00 NOT +1.0 OR -1.0
    SEQUENCE NUMBER 4
    NORMALIZATION CHECK INTEGRAL= 1.00358E+00 BEFORE SEQUENCE NUMBER 252
    TOTAL ENERGY RELEASE SUMUP FAILURE

    ...

• **fizcon** Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1562, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question. FIZCON should just lighten up and let science progress.

```
ERROR(S) FOUND IN MAT=1562, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
```

SEQUENCE NUMBER 2

---

**dec-050_Sn_132.endf**

- Passed All Checks!

---

**dec-050_Sn_133.endf**

- **fizcon** Errors:

  1. All probability distributions should be normalized to 1, this one isn’t.

```
ERROR(S) FOUND IN MAT=1564, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.01580E+00 BEFORE SEQUENCE NUMBER 464
NEUTRON AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 1.40953E+01 SUM= 1.57019E+01
```

---

**dec-050_Sn_134.endf**

- **fizcon** Errors:

  1. All probability distributions should be normalized to 1, this one isn’t.

```
ERROR(S) FOUND IN MAT=1565, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00231E+00 BEFORE SEQUENCE NUMBER 202
NEUTRON AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 9.78285E+04 SUM= 9.94274E+04
```

---

**dec-050_Sn_135.endf**

- **fizcon** Errors:

  1. All probability distributions should be normalized to 1, this one isn’t.

```
ERROR(S) FOUND IN MAT=1566, MF= 8, MT=457
PARITY= 0.000000E+00 NOT +1.0 OR -1.0
E(MAXIMUM) > Q  E= 9.18000E+06  Q= 5.48200E+06
NORMALIZATION CHECK INTEGRAL= 1.00110E+00 BEFORE SEQUENCE NUMBER 457
```

...
fizcon Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=1567, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 5.41403E+06  SUM= 3.00493E+06  SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE
```

...
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1571, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

dec-051_Sb_106.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1572, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

dec-051_Sb_107.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1573, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

dec-051_Sb_108.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1574, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

dec-051_Sb_109.endf

• Passed All Checks!

dec-051_Sb_110.endf

• Passed All Checks!

dec-051_Sb_111.endf

• Passed All Checks!

dec-051_Sb_112.endf

• fizcon Errors:

294
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1578, MF= 8, MT=457
E.C. MULTIPLICITY SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 9.98600E-01

- dec-051_Sb_113.endf

- fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=1579, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

- dec-051_Sb_114.endf
- dec-051_Sb_115.endf
- dec-051_Sb_116.endf
- dec-051_Sb_116m1.endf
- dec-051_Sb_117.endf
- dec-051_Sb_118.endf
- dec-051_Sb_118m1.endf

- fizcon Errors:
  1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=1586, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 1.40138E+02 E= 1.33216E+06 I= 8

- dec-051_Sb_119.endf
• Passed All Checks!

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1588, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

• Passed All Checks!

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1591, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00
   NO DECAY SPECTRA GIVEN

• Passed All Checks!

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1594, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00
   NO DECAY SPECTRA GIVEN
Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1606, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!
• Passed All Checks!

dec-051_Sb_130m1.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1608, MF= 8, MT=457
BETA MULTIPLICITY SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 8.69000E-01

dec-051_Sb_131.endf

• Passed All Checks!

dec-051_Sb_132.endf

• Passed All Checks!

dec-051_Sb_132m1.endf

• Passed All Checks!

dec-051_Sb_133.endf

• Passed All Checks!

dec-051_Sb_134.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1613, MF= 8, MT=457
E(MAXIMUM) > Q  E= 7.10000E+05  Q= 7.07460E+05  SEQUENCE NUMBER 69
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 8.16728E+06 SUM= 8.44801E+06  SEQUENCE NUMBER 1

... 

dec-051_Sb_134m1.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1614, MF= 8, MT=457
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 9.71400E+01 SUM= 1.02311E+02

dec-051_Sb_135.endf

298
1. All probability distributions should be normalized to 1, this one isn't.

ERROR(S) FOUND IN MAT=1615, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00664E+00 BEFORE SEQUENCE NUMBER 297
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.95200E+05 SUM= 1.97331E+05

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1616, MF= 8, MT=457
PARITY= 0.000000E+00 NOT +1.0 OR -1.0
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 7.70360E+06 SUM= 5.16874E+06

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1617, MF= 8, MT=457
PARITY= 0.000000E+00 NOT +1.0 OR -1.0
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 6.00844E+06 SUM= 3.54290E+06

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1618, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 9.97002E+06 SUM= 6.34003E+06
GAMMA AVERAGE ENERGY SUMUP FAILURE

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1619, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 9.97002E+06 SUM= 6.34003E+06
GAMMA AVERAGE ENERGY SUMUP FAILURE

1. Energies released in decay not adding up!
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1619, MF=8, MT=457
E(MAXIMUM) > Q  E= 1.00600E+07  Q= 7.36400E+06  SEQUENCE NUMBER 9
TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 7.35476E+06  SUM= 4.16337E+06  SEQUENCE NUMBER 1

...
NON-EURS:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1624, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 7
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 8

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1625, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1626, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1627, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• Passed All Checks!

301
• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1631, MF=8, MT=457
E.C. AVERAGE ENERGY SUMUP FAILURE
WHOLE = 5.00200E+05 SUM = 5.89708E+05

fizcon Errors:

1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=1633, MF=8, MT=457
FT VALUE TOO SMALL
FT = 5.62707E+01 E = 1.24900E+06 I = 22

fizcon Errors:

1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=1637, MF=8, MT=457
FT VALUE TOO SMALL
FT = 2.27651E+02 E = 1.18762E+06 I = 42
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1638, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

Passed All Checks!

Non-errors:

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1641, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

Passed All Checks!

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1642, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 5.27000E+04 SUM= 5.05009E+04 SEQUENCE NUMBER 1

Passed All Checks!

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=1644, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

* dec-052_Te_125.endf *

- fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1645, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

* dec-052_Te_125m1.endf *

- Passed All Checks!

* dec-052_Te_126.endf *

- fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1647, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

* dec-052_Te_127.endf *

- Passed All Checks!

* dec-052_Te_127m1.endf *

- Passed All Checks!

* dec-052_Te_128.endf *

- fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1650, MF= 8, MT=457
   T12 NOT IN RANGE 0.00000E+00 TO 1.00000E+24  SEQUENCE NUMBER 3
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5
• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1653, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

fizcon Errors:

1. Energies released in decay not adding up!
• fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=1661, MF= 8, MT=457
   NORMALIZATION CHECK INTEGRAL= 1.01579E+00 BEFORE SEQUENCE NUMBER 121
   NEUTRON AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 3.81012E+03 SUM= 3.90326E+03

   dec-052_Te_137.endf

• fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=1662, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
   NORMALIZATION CHECK INTEGRAL= 1.00365E+00 BEFORE SEQUENCE NUMBER 327
   TOTAL ENERGY RELEASE SUMUP FAILURE

   ... dec-052_Te_138.endf

• fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1663, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 5.93142E+06 SUM= 3.99187E+06 SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

   ... dec-052_Te_139.endf

• fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1664, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 8.04234E+06 SUM= 4.95571E+06 SEQUENCE NUMBER 1

   ... dec-052_Te_140.endf

• fizcon Errors:

306
1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=1665, MF=8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 6.92490E+06 SUM= 3.97468E+06 SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE
```

```
• fizcon Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=1666, MF=8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 9.14662E+06 SUM= 5.91143E+06 SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE
```

```
• fizcon Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=1667, MF=8, MT=457
   DQ NOT IN RANGE 0.00000E+00 TO 5.52256E+05 SEQUENCE NUMBER 7
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 7.75087E+06 SUM= 4.28076E+06 SEQUENCE NUMBER 1
```

```
• fizcon Errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1668, MF=8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7
```

```
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can’t evaluate it.
```

307
ERROR(S) FOUND IN MAT=1669, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

•  dec-053_I_110.endf

  •  fizcon

    Non-errors:

    1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1670, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID
NO DECAY SPECTRA GIVEN
NEAR SEQUENCE NUMBER 7
SEQUENCE NUMBER 8

•  dec-053_I_111.endf

  •  fizcon

    Non-errors:

    1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1671, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

•  dec-053_I_112.endf

  •  fizcon

    Non-errors:

    1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1672, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

•  dec-053_I_113.endf

  •  fizcon

    Non-errors:

    1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1673, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

•  dec-053_I_114.endf

  •  fizcon

    Non-errors:

308
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1674, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

SEQUENCE NUMBER 5

```
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1675, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN
```

SEQUENCE NUMBER 4

SEQUENCE NUMBER 6

```
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1676, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

SEQUENCE NUMBER 5

```
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1677, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

SEQUENCE NUMBER 5

```
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1678, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

SEQUENCE NUMBER 5
• **fizcon Errors:**
  
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=1679, MF= 8, MT=457
    E.C. AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 2.10619E+06 SUM= 1.95937E+06

    ____________dec-053_I_118m1.endf ____________

• Passed All Checks!

    ____________dec-053_I_119.endf ____________

• Passed All Checks!

    ____________dec-053_I_120.endf ____________

• Passed All Checks!

    ____________dec-053_I_120m1.endf ____________

• **fizcon Non-errors:**
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=1683, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5

    ____________dec-053_I_121.endf ____________

• Passed All Checks!

    ____________dec-053_I_122.endf ____________

• Passed All Checks!

    ____________dec-053_I_123.endf ____________

• Passed All Checks!

    ____________dec-053_I_124.endf ____________

• Passed All Checks!

    ____________dec-053_I_125.endf ____________

• Passed All Checks!

    ____________dec-053_I_126.endf ____________

• Passed All Checks!

310
• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

    ERROR(S) FOUND IN MAT=1690, MF= 8, MT=457
    BRANCHING RATIO SUMUP FAILURE
    WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
    NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

• fizcon Errors:

  1. Beta spectrum integral too small

    ERROR(S) FOUND IN MAT=1691, MF= 8, MT=457
    FT VALUE TOO SMALL  SEQUENCE NUMBER 44
    FT= 3.92303E+01  E= 1.25200E+06  I= 15  SEQUENCE NUMBER 44

• fizcon Errors:

  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=1692, MF= 8, MT=457
    BETA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 3.70000E+04  SUM= 4.14902E+04

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!
dec-053_I_133.endf
• Passed All Checks!

dec-053_I_133m1.endf
• Passed All Checks!

dec-053_I_134.endf
• Passed All Checks!

dec-053_I_134m1.endf
• Passed All Checks!

dec-053_I_135.endf
• Passed All Checks!

dec-053_I_136.endf
• Passed All Checks!

dec-053_I_136m1.endf
• Passed All Checks!

• fizcon Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=1704, MF= 8, MT=457
    BETA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 2.61195E+06 SUM= 2.26033E+06

• fizcon Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=1705, MF= 8, MT=457
    NEUTRON AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 4.46076E+04 SUM= 4.52983E+04

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

    ERROR(S) FOUND IN MAT=1706, MF= 8, MT=457
   -normalization check integral= 1.00947E+00 before sequence number 421
    NEUTRON AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 2.09685E+04 SUM= 2.14030E+04

312
fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=1707, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER  4
   NORMALIZATION CHECK INTEGRAL= 1.00763E+00 BEFORE SEQUENCE NUMBER  516
   TOTAL ENERGY RELEASE SUMUP FAILURE


fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=1708, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER  4
   NORMALIZATION CHECK INTEGRAL= 1.00622E+00 BEFORE SEQUENCE NUMBER  778
   TOTAL ENERGY RELEASE SUMUP FAILURE


fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=1709, MF= 8, MT=457
   NORMALIZATION CHECK INTEGRAL= 1.00632E+00 BEFORE SEQUENCE NUMBER  700
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 7.20029E+06  SUM= 4.73599E+06  SEQUENCE NUMBER  1


fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=1710, MF= 8, MT=457
   NORMALIZATION CHECK INTEGRAL= 1.00631E+00 BEFORE SEQUENCE NUMBER  749
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 7.52837E+06  SUM= 4.84854E+06  SEQUENCE NUMBER  1


313
• **fizcon Errors:**

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=1711, MF= 8, MT=457
   NORMALIZATION CHECK INTEGRAL= 1.00165E+00 BEFORE SEQUENCE NUMBER 756
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 6.32324E+06 SUM= 3.39122E+06 SEQUENCE NUMBER 1
   ...

   ______________________dec-053_I_144.endf____________________________

• **fizcon Errors:**

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1712, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 9.35155E+06 SUM= 5.47502E+06 SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE
   ...

   ______________________dec-053_I_145.endf____________________________

• **fizcon Errors:**

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=1713, MF= 8, MT=457
   E(MAXIMUM) > Q  E= 9.88000E+06 Q= 1.05480E+04 SEQUENCE NUMBER 10
   E(MAXIMUM) > Q  E= 9.93000E+06 Q= 1.05480E+04 SEQUENCE NUMBER 344
   NORMALIZATION CHECK INTEGRAL= 1.00115E+00 BEFORE SEQUENCE NUMBER 921
   ...

   ______________________dec-054_Xe_110.endf____________________________

• **fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1714, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

   ______________________dec-054_Xe_111.endf____________________________

• **fizcon Non-errors:**

314
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1715, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER   6
```

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1716, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER   6
```

```
dec-054_Xe_112.endf
```

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1717, MF= 8, MT=457
 7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 7
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER   8
```

```
dec-054_Xe_113.endf
```

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1718, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER   5
```

```
dec-054_Xe_114.endf
```

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1719, MF= 8, MT=457
 7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER   7
```

```
dec-054_Xe_115.endf
```

```
dec-054_Xe_116.endf
```

315
• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=1720, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 5

     ____________________________________________
     dec-054_Xe_117.endf

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=1721, MF= 8, MT=457
     7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 6

     ____________________________________________
     dec-054_Xe_118.endf

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=1722, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 5

     ____________________________________________
     dec-054_Xe_119.endf

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=1723, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 5

     ____________________________________________
     dec-054_Xe_120.endf

• Passed All Checks!

     ____________________________________________
     dec-054_Xe_121.endf

• Passed All Checks!

     ____________________________________________
     dec-054_Xe_122.endf

• Passed All Checks!

  316
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1728, MF=8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE=1.000000E+00 SUM=0.000000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1731, MF=8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE=1.000000E+00 SUM=0.000000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

• Passed All Checks!

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

• Passed All Checks!
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   `ERROR(S) FOUND IN MAT=1740, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5`

• **Passed All Checks!**

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   `ERROR(S) FOUND IN MAT=1744, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5`

• **Passed All Checks!**

• **Passed All Checks!**

• **Passed All Checks!**

• **Passed All Checks!**

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

319
ERROR(S) FOUND IN MAT=1748, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

----------------------------- dec-054_Xe_137.endf -----------------------------

• Passed All Checks!

----------------------------- dec-054_Xe_138.endf -----------------------------

• Passed All Checks!

----------------------------- dec-054_Xe_139.endf -----------------------------

• Passed All Checks!

----------------------------- dec-054_Xe_140.endf -----------------------------

• Passed All Checks!

----------------------------- dec-054_Xe_141.endf -----------------------------

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=1753, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.01676E+00 BEFORE SEQUENCE NUMBER 649
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 5.09257E+01 SUM= 5.35365E+01

----------------------------- dec-054_Xe_142.endf -----------------------------

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=1754, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.01232E+00 BEFORE SEQUENCE NUMBER 406
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 5.28709E+06 SUM= 2.90150E+06 SEQUENCE NUMBER 1
...

----------------------------- dec-054_Xe_143.endf -----------------------------

• fizcon Errors:
  1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=1755, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 7.44465E+06 SUM= 4.85819E+06

...  

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1756, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 6.37165E+06 SUM= 3.53571E+06

GAMMA AVERAGE ENERGY SUMUP FAILURE

...  

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1757, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 8.41888E+06 SUM= 5.37563E+06

GAMMA AVERAGE ENERGY SUMUP FAILURE

...  

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1758, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 7.52902E+06 SUM= 4.15474E+06

GAMMA AVERAGE ENERGY SUMUP FAILURE

...  

fizcon Errors:
1. Energies released in decay not adding up!

321
ERROR(S) FOUND IN MAT=1759, MF= 8, MT=457
PARITY= 0.000000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 9.12440E+06 SUM= 5.17316E+06 SEQUENCE NUMBER 1

---

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1760, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED SEQUENCE NUMBER 4
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL SEQUENCE NUMBER 4
PARITY= 0.000000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1761, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1762, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 7
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 8

---

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

322
ERROR(S) FOUND IN MAT=1763, MF=8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1764, MF=8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 7
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

• fizzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1765, MF=8, MT=457
NEGATIVE SPIN NOT ALLOWED SEQUENCE NUMBER 4
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL SEQUENCE NUMBER 4
PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 7
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

• fizzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1766, MF=8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1767, MF=8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

323
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1768, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 7
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7
```

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

```
ERROR(S) FOUND IN MAT=1769, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED SEQUENCE NUMBER 4
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL SEQUENCE NUMBER 4
PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 7
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7
```

3. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1770, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```
2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress.

ERROR(S) FOUND IN MAT=1771, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

---

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1773, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---

• Passed All Checks!

---

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1775, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6
• Passed All Checks!

• **fizcon** Non-errors:
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

  ERROR(S) FOUND IN MAT=1777, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN
  SEQUENCE NUMBER 5

• Passed All Checks!

• **fizcon** Non-errors:
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

  ERROR(S) FOUND IN MAT=1778, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN
  SEQUENCE NUMBER 5

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• **fizcon** Non-errors:
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

  ERROR(S) FOUND IN MAT=1782, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN
  SEQUENCE NUMBER 5

• Passed All Checks!
• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=1784, MF=8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

dec-055_Cs_126.endf

Passed All Checks!
```

```plaintext
dec-055_Cs_127.endf

Passed All Checks!
```

```plaintext
dec-055_Cs_128.endf

Passed All Checks!
```

```plaintext
dec-055_Cs_129.endf

Passed All Checks!
```

```plaintext
dec-055_Cs_130.endf

Passed All Checks!
```

• **fizcon** Errors:

  1. Energies released in decay not adding up!

```plaintext
ERROR(S) FOUND IN MAT=1789, MF=8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.10560E+03 SUM= 1.72632E+03

dec-055_Cs_130m1.endf

Passed All Checks!
```

```plaintext
dec-055_Cs_131.endf

Passed All Checks!
```

```plaintext
dec-055_Cs_132.endf

Passed All Checks!
```

```plaintext
dec-055_Cs_133.endf

Passed All Checks!
```

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=1793, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN

---

Passed All Checks!

---

Passed All Checks!

---

Passed All Checks!

---

Passed All Checks!

---

Passed All Checks!

---

Passed All Checks!

---

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1799, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

---

dec-055_Cs_134.endf

---

dec-055_Cs_134m1.endf

---

dec-055_Cs_135.endf

---

dec-055_Cs_135m1.endf

---

dec-055_Cs_136.endf

---

dec-055_Cs_136m1.endf

---

Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1800, MF= 8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.79446E+05 SUM= 1.86653E+05

---

dec-055_Cs_137.endf

---

dec-055_Cs_138.endf

---

dec-055_Cs_138m1.endf

---

Passed All Checks!
Passed All Checks!

fizcon Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=1804, MF= 8, MT=457
GAMMA ENERGY (GE) SUMUP FAILURE
WHOLE= 1.86442E+06 SUM= 1.79612E+06 SEQUENCE NUMBER 3
```

fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

```
ERROR(S) FOUND IN MAT=1805, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.01424E+00 BEFORE SEQUENCE NUMBER 575
E(MAXIMUM) > Q E= 7.30000E+05 Q= 7.18650E+05 SEQUENCE NUMBER 549
BETA ENERGY (BE) SUMUP FAILURE
```

fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

```
ERROR(S) FOUND IN MAT=1806, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00462E+00 BEFORE SEQUENCE NUMBER 324
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.32502E+02 SUM= 2.38696E+02
```

fizcon Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=1807, MF= 8, MT=457
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 4.20529E+03 SUM= 4.31776E+03
```

fizcon Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=1807, MF= 8, MT=457
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 4.20529E+03 SUM= 4.31776E+03
```
1. Energies released in decay not adding up!

   ```plaintext
   ERROR(S) FOUND IN MAT=1808, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER  4
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 8.31701E+06  SUM= 6.29392E+06  SEQUENCE NUMBER  1
   ```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```plaintext
   ERROR(S) FOUND IN MAT=1809, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
   ```

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

   ```plaintext
   ERROR(S) FOUND IN MAT=1809, MF= 1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE  SEQUENCE NUMBER  2
   ```

• **fizcon** Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ```plaintext
   ERROR(S) FOUND IN MAT=1810, MF= 8, MT=457
   NORMALIZATION CHECK INTEGRAL= 1.00228E+00 BEFORE SEQUENCE NUMBER  441
   NEUTRON AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 4.94651E+04  SUM= 5.05519E+04
   ```

• **fizcon** Errors:

1. Energies released in decay not adding up!

   ```plaintext
   ERROR(S) FOUND IN MAT=1811, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER  4
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 8.59111E+06  SUM= 6.13449E+06  SEQUENCE NUMBER  1
   ```
• $\text{fizcon}$ Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=1812, MF= 8, MT=457
   Parity= 0.00000E+00 NOT +1.0 OR -1.0  Sequence Number  679
   Normalization Check Integral= 1.00232E+00 Before Sequence Number
   Total Energy Release Sumup Failure

• $\text{fizcon}$ Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1813, MF= 8, MT=457
   Total Energy Release Sumup Failure
   Whole= 9.11792E+06 Sum= 5.76679E+06 Sequence Number  1
   Gamma Average Energy Sumup Failure

• $\text{fizcon}$ Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1814, MF= 8, MT=457
   Total Energy Release Sumup Failure
   Whole= 6.81322E+06 Sum= 3.90122E+06 Sequence Number  1
   Gamma Average Energy Sumup Failure

• $\text{fizcon}$ Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=1815, MF= 8, MT=457
   Normalization Check Integral= 1.00216E+00 Before Sequence Number  984
   Total Energy Release Sumup Failure
   Whole= 6.95547E+06 Sum= 3.85850E+06 Sequence Number  1

• $\text{fizcon}$ Errors:

1. Energies released in decay not adding up!

• $\text{fizcon}$ Errors:
1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1816, MF=8, MT=457
   E(MAXIMUM) > Q  E= 1.05100E+07  Q= 7.21400E+06  SEQUENCE NUMBER 720
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 7.67488E+06  SUM= 4.32024E+06  SEQUENCE NUMBER 1

   ...
ERROR(S) FOUND IN MAT=1820, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 4

----------dec-056_Ba_118.endf----------

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1821, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

----------dec-056_Ba_119.endf----------

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1822, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID
NO DECAY SPECTRA GIVEN

NEAR SEQUENCE NUMBER 6

SEQUENCE NUMBER 5

----------dec-056_Ba_120.endf----------

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1823, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

----------dec-056_Ba_121.endf----------

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1824, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

----------dec-056_Ba_122.endf----------

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1825, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

--------------------------------------------------------

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1826, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

--------------------------------------------------------

• fizcon Errors:

1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=1827, MF= 8, MT=457
FT VALUE TOO SMALL SEQUENCE NUMBER 412
FT = 1.20211E+02  E = 1.39743E+06  I = 187
     SEQUENCE NUMBER 412
FT VALUE TOO SMALL SEQUENCE NUMBER 414
FT = 1.16421E+02  E = 1.42538E+06  I = 188
     SEQUENCE NUMBER 414

--------------------------------------------------------

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1828, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

--------------------------------------------------------

• Passed All Checks!

--------------------------------------------------------

• Passed All Checks!

--------------------------------------------------------

• fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1831, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

---dec-056_Ba_128.endf---

• Passed All Checks!

---dec-056_Ba_129.endf---

• Passed All Checks!

---dec-056_Ba_129m1.endf---

• fizzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1834, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

---dec-056_Ba_130.endf---

• fizzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1835, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00   SUM= 0.00000E+00
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 4
SEQUENCE NUMBER 5
```

---dec-056_Ba_130m1.endf---

• fizzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1836, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

---dec-056_Ba_131.endf---

• Passed All Checks!

335
dec-056_Ba_131m1.endf

- Passed All Checks!

dec-056_Ba_132.endf

- fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1839, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
  WHOLE= 1.00000E+00 SUM= 0.00000E+00
NO DECAY SPECTRA GIVEN
  SEQUENCE NUMBER 4
  SEQUENCE NUMBER 5

dec-056_Ba_133.endf

- Passed All Checks!

dec-056_Ba_133m1.endf

- Passed All Checks!

dec-056_Ba_134.endf

- fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1842, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
  WHOLE= 1.00000E+00 SUM= 0.00000E+00
NO DECAY SPECTRA GIVEN
  SEQUENCE NUMBER 4
  SEQUENCE NUMBER 5

dec-056_Ba_135.endf

- fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1843, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
  WHOLE= 1.00000E+00 SUM= 0.00000E+00
NO DECAY SPECTRA GIVEN
  SEQUENCE NUMBER 4
  SEQUENCE NUMBER 5

dec-056_Ba_135m1.endf

- Passed All Checks!

336
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1845, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

Passed All Checks!
dec-056_Ba_141.endf

- Passed All Checks!

dec-056_Ba_142.endf

- Passed All Checks!

dec-056_Ba_143.endf

- **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=1854, MF= 8, MT=457
     GAMMA ENERGY (GE) SUMUP FAILURE
     WHOLE= 1.34259E+06 SUM= 1.13540E+06 SEQUENCE NUMBER 3

dec-056_Ba_144.endf

- **fizcon** Errors:

  1. All probability distributions should be normalized to 1, this one isn’t.

     ERROR(S) FOUND IN MAT=1855, MF= 8, MT=457
     NORMALIZATION CHECK INTEGRAL= 1.00139E+00 BEFORE SEQUENCE NUMBER 219
     TOTAL ENERGY RELEASE SUMUP FAILURE
     WHOLE= 3.06641E+06 SUM= 1.59942E+06 SEQUENCE NUMBER 1

...  

dec-056_Ba_145.endf

- **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=1856, MF= 8, MT=457
     BETA ENERGY (BE) SUMUP FAILURE
     WHOLE= 1.45839E+06 SUM= 1.30702E+06 SEQUENCE NUMBER 3
     GAMMA ENERGY (GE) SUMUP FAILURE
     WHOLE= 1.83098E+06 SUM= 2.04733E+06 SEQUENCE NUMBER 3

dec-056_Ba_146.endf

- **fizcon** Errors:

  1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=1857, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 4.10840E+06 SUM= 2.19958E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=1858, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.02642E+00 BEFORE SEQUENCE NUMBER 369
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.39320E+01 SUM= 2.71780E+01

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1859, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 5.09859E+06 SUM= 2.79432E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=1860, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00841E+00 BEFORE SEQUENCE NUMBER 539
E(MAXIMUM) > Q E= 1.47000E+06 Q= 1.46800E+06 SEQUENCE NUMBER 488
TOTAL ENERGY RELEASE SUMUP FAILURE

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.
ERROR(S) FOUND IN MAT=1861, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00253E+00 BEFORE SEQUENCE NUMBER 493
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 6.15997E+06  SUM= 3.59163E+06  SEQUENCE NUMBER 1

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=1862, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.01864E+00 BEFORE SEQUENCE NUMBER 672
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 8.13734E+06  SUM= 5.37453E+06  SEQUENCE NUMBER 1

• fizcon Errors:
  1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1863, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 7.17158E+06  SUM= 4.13890E+06  SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=1864, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00178E+00 BEFORE SEQUENCE NUMBER 785
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 9.23401E+06  SUM= 5.49084E+06  SEQUENCE NUMBER 1

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=1865, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED          SEQUENCE NUMBER  4
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL SEQUENCE NUMBER  4
PARITY= 0.000000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER  4
NO DECAY SPECTRA GIVEN              SEQUENCE NUMBER  6

dec-057_La_117m1.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1866, MF= 8, MT=457
NO DECAY SPECTRA GIVEN              SEQUENCE NUMBER  6

dec-057_La_118.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1867, MF= 8, MT=457
NO DECAY SPECTRA GIVEN              SEQUENCE NUMBER  5

dec-057_La_119.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1868, MF= 8, MT=457
NO DECAY SPECTRA GIVEN              SEQUENCE NUMBER  5

dec-057_La_120.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1869, MF= 8, MT=457
NO DECAY SPECTRA GIVEN              SEQUENCE NUMBER  5

dec-057_La_121.endf

• fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1870, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1871, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1872, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1873, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1874, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress
ERROR(S) FOUND IN MAT=1874, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

• fizcon

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1875, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1876, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1877, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1878, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=1878, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

343
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1879, MF=8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

   ERROR(S) FOUND IN MAT=1882, MF=1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE

   SEQUENCE NUMBER 2
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=1884, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• fizon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=1888, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• fizon Errors:
  1. Beta spectrum integral too small

```plaintext
ERROR(S) FOUND IN MAT=1891, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 3.21527E+01  E= 1.20000E+06  I= 29
```

```plaintext
345
```
• Passed All Checks!

dec-057_La_136m1.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1893, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

dec-057_La_137.endf

• Passed All Checks!

dec-057_La_138.endf

• Passed All Checks!

dec-057_La_139.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1896, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

dec-057_La_140.endf

• Passed All Checks!

dec-057_La_141.endf

• Passed All Checks!

dec-057_La_142.endf

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1899, MF= 8, MT=457
RICC MUST BE GREATER THAN OR EQUAL TO RICK + RICLSEQUENCE NUMBER 151
BETA ENERGY (BE) SUMUP FAILURE
WHOLESUM= 9.54360E+05 8.68226E+05 SEQUENCE NUMBER 3
GAMMA ENERGY (GE) SUMUP FAILURE
WHOLESUM= 2.11742E+06 2.36802E+06 SEQUENCE NUMBER 3

346
• **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=1900, MF= 8, MT=457
     GAMMA ENERGY (GE) SUMUP FAILURE
     WHOLE= 4.23769E+05 SUM= 2.63047E+05 SEQUENCE NUMBER 3

• **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=1901, MF= 8, MT=457
     BETA ENERGY (BE) SUMUP FAILURE
     WHOLE= 1.02057E+06 SUM= 1.35577E+06 SEQUENCE NUMBER 3
     GAMMA ENERGY (GE) SUMUP FAILURE
     WHOLE= 3.15832E+06 SUM= 2.32987E+06 SEQUENCE NUMBER 3

• **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=1902, MF= 8, MT=457
     PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
     TOTAL ENERGY RELEASE SUMUP FAILURE
     WHOLE= 4.26057E+06 SUM= 2.03209E+06 SEQUENCE NUMBER 1

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=1904, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

  2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress.

347
ERROR(S) FOUND IN MAT=1904, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE  SEQUENCE NUMBER 2

```
• fizcon  Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.
```

```
ERROR(S) FOUND IN MAT=1905, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00258E+00 BEFORE SEQUENCE NUMBER 233
NEUTRON AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 3.94370E+01  SUM= 4.17778E+01
```

```
• fizcon  Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.
```

```
ERROR(S) FOUND IN MAT=1906, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.04713E+00 BEFORE SEQUENCE NUMBER 196
NEUTRON AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 7.82987E+01  SUM= 8.66547E+01
```

```
• fizcon  Errors:
  1. Energies released in decay not adding up!
```

```
ERROR(S) FOUND IN MAT=1907, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER 4
TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 6.38790E+06  SUM= 4.33426E+06  SEQUENCE NUMBER 1
```

```
• fizcon  Errors:
  1. Energies released in decay not adding up!
```

```
ERROR(S) FOUND IN MAT=1908, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 8.12925E+06  SUM= 5.45631E+06  SEQUENCE NUMBER 1
```

```
GAMMA AVERAGE ENERGY SUMUP FAILURE
```

```
• **fizcon** Errors:

  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=1909, MF= 8, MT=457
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 7.09217E+06 SUM= 4.94668E+06 SEQUENCE NUMBER 1
    GAMMA AVERAGE ENERGY SUMUP FAILURE
    ...

• **fizcon** Errors:

  1. All probability distributions should be normalized to 1, this one isn’t.

    ERROR(S) FOUND IN MAT=1910, MF= 8, MT=457
    NORMALIZATION CHECK INTEGRAL= 1.00183E+00 BEFORE SEQUENCE NUMBER 691
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 9.09384E+06 SUM= 6.71348E+06 SEQUENCE NUMBER 1
    ...

• **fizcon** Errors:

  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=1911, MF= 8, MT=457
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 6.52163E+06 SUM= 3.82623E+06 SEQUENCE NUMBER 1
    GAMMA AVERAGE ENERGY SUMUP FAILURE
    ...

• **fizcon** Errors:

  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=1912, MF= 8, MT=457
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 9.60221E+06 SUM= 6.13988E+06 SEQUENCE NUMBER 1
    GAMMA AVERAGE ENERGY SUMUP FAILURE
    ...

 349
• **fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1913, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 7.81640E+06 SUM= 4.65059E+06 SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

   ...__dec-058_Ce_119.endf__

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1914, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

   __dec-058_Ce_120.endf__

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1915, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

   __dec-058_Ce_121.endf__

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1916, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

   __dec-058_Ce_122.endf__

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=1917, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

---dec-058_Ce_123.endf---

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1918, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---dec-058_Ce_124.endf---

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1919, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---dec-058_Ce_125.endf---

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1920, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---dec-058_Ce_126.endf---

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1921, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---dec-058_Ce_127.endf---

• fizcon Non-errors:

351
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   • *fizcon* Non-errors:
     
     1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT=1923, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5
   ```

   `dec-058_Ce_128.endf`

   • Passed All Checks!

   `dec-058_Ce_131.endf`

   • *fizcon* Non-errors:
     
     1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT=1927, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5
   ```

   `dec-058_Ce_130.endf`
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1928, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

• **Passed All Checks!**

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1930, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

• **Passed All Checks!**

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1932, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

• **Passed All Checks!**
• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=1936, MF=8, MT=457
    BRANCHING RATIO SUMUP FAILURE
    WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

    dec-058_Ce_137.endf

• fizcon Errors:

  1. Beta spectrum integral too small

    ERROR(S) FOUND IN MAT=1937, MF=8, MT=457
    FT VALUE TOO SMALL SEQUENCE NUMBER 71
    FT= 1.96680E+01 E= 1.21151E+06 I= 28 SEQUENCE NUMBER 71

    dec-058_Ce_137m1.endf

• Passed All Checks!

    dec-058_Ce_138.endf

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=1939, MF=8, MT=457
    BRANCHING RATIO SUMUP FAILURE
    WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

    dec-058_Ce_138m1.endf

• Passed All Checks!

    dec-058_Ce_139.endf

• Passed All Checks!

    dec-058_Ce_139m1.endf

• Passed All Checks!

    dec-058_Ce_140.endf

• fizcon Non-errors:

354
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1943, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

   • Passed All Checks!

   • fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=1945, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

   • Passed All Checks!

   • Passed All Checks!

   • Passed All Checks!

   • fizcon Errors:

   1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1948, MF= 8, MT=457
   GAMMA ENERGY (GE) SUMUP FAILURE
   WHOLE= 8.84505E+05 SUM= 7.99865E+05 SEQUENCE NUMBER 3

   • fizcon Errors:

   1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1949, MF= 8, MT=457
   BETA ENERGY (BE) SUMUP FAILURE
   WHOLE= 2.19934E+05 SUM= 2.64642E+05 SEQUENCE NUMBER 3
   GAMMA ENERGY (GE) SUMUP FAILURE
   WHOLE= 3.52800E+05 SUM= 3.18398E+05 SEQUENCE NUMBER 3
• **fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1950, MF= 8, MT=457
   BETA ENERGY (BE) SUMUP FAILURE
   \[\text{WHOLE} = 7.48830E+05, \text{SUM} = 1.15437E+06\]  \hspace{1cm} \text{SEQUENCE NUMBER} \hspace{1cm} 3
   GAMMA ENERGY (GE) SUMUP FAILURE
   \[\text{WHOLE} = 1.49671E+06, \text{SUM} = 5.98431E+05\]  \hspace{1cm} \text{SEQUENCE NUMBER} \hspace{1cm} 3

• **fizcon** Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=1951, MF= 8, MT=457
   \[\text{E(MAXIMUM)} > \text{E} = 2.14000E+06, \text{Q} = 2.13680E+06\]  \hspace{1cm} \text{SEQUENCE NUMBER} \hspace{1cm} 8
   NORMALIZATION CHECK INTEGRAL = 1.00319E+00 BEFORE SEQUENCE NUMBER 157
   \[\text{E(MAXIMUM)} > \text{Q} = 2.14000E+06, \text{Q} = 2.13680E+06\]  \hspace{1cm} \text{SEQUENCE NUMBER} \hspace{1cm} 84

• **fizcon** Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=1952, MF= 8, MT=457
   \[\text{PARITY} = 0.00000E+00 \text{ NOT} +1.0 \text{ OR} -1.0\]  \hspace{1cm} \text{SEQUENCE NUMBER} \hspace{1cm} 4
   NORMALIZATION CHECK INTEGRAL = 1.00231E+00 BEFORE SEQUENCE NUMBER 253
   TOTAL ENERGY RELEASE SUMUP FAILURE

• **fizcon** Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=1953, MF= 8, MT=457
   \[\text{NORMALIZATION CHECK INTEGRAL} = 1.00123E+00 \text{ BEFORE SEQUENCE NUMBER} \hspace{1cm} 235\]
   TOTAL ENERGY RELEASE SUMUP FAILURE
   \[\text{WHOLE} = 3.45021E+06, \text{SUM} = 1.90985E+06\]  \hspace{1cm} \text{SEQUENCE NUMBER} \hspace{1cm} 1

---

356
• **fizcon Errors:**

  1. Energies released in decay not adding up!

      ERROR(S) FOUND IN MAT=1954, MF= 8, MT=457
      PARITY= 0.00000E+00 NOT +1.0 OR -1.0
      TOTAL ENERGY RELEASE SUMUP FAILURE
      WHOLE= 5.55541E+06 SUM= 2.99711E+06
      SEQUENCE NUMBER 1

      ...  

  • **fizcon Errors:**

  1. Energies released in decay not adding up!

      ERROR(S) FOUND IN MAT=1955, MF= 8, MT=457
      TOTAL ENERGY RELEASE SUMUP FAILURE
      WHOLE= 4.45000E+06 SUM= 2.64129E+06
      SEQUENCE NUMBER 1

      GAMMA AVERAGE ENERGY SUMUP FAILURE

      ...  

  • **fizcon Errors:**

  1. Energies released in decay not adding up!

      ERROR(S) FOUND IN MAT=1956, MF= 8, MT=457
      E(MAXIMUM) > Q  E= 4.60000E+05  Q= 4.58000E+05
      TOTAL ENERGY RELEASE SUMUP FAILURE
      WHOLE= 6.35251E+06 SUM= 4.46227E+06
      SEQUENCE NUMBER 1

      ...  

  • **fizcon Errors:**

  1. Energies released in decay not adding up!

      ERROR(S) FOUND IN MAT=1957, MF= 8, MT=457
      E(MAXIMUM) > Q  E= 7.80000E+05  Q= 7.78000E+05
      TOTAL ENERGY RELEASE SUMUP FAILURE
      WHOLE= 5.46233E+06 SUM= 3.14477E+06
      SEQUENCE NUMBER 1

      ...  

  • **fizcon Errors:**
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1958, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 7.51951E+06 SUM= 4.33819E+06 SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

... dec-058_Ce_156.endf

• fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=1959, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.01576E+00 BEFORE SEQUENCE NUMBER 538
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 6.54960E+06 SUM= 3.71802E+06 SEQUENCE NUMBER 1

... dec-058_Ce_157.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1960, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 8.43176E+06 SUM= 5.40243E+06 SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

... dec-059_Pr_121.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1961, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

... dec-059_Pr_122.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=1962, MF=8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1963, MF=8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1964, MF=8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1965, MF=8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1966, MF=8, MT=457
NEGATIVE SPIN NOT ALLOWED
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
PARITY=0.000000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN

• fizcon

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1967, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizzcon Errors:

1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=1968, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 1.47838E+05 E= 8.99300E+06 I= 23
SEQUENCE NUMBER 60

• fizzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1969, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1970, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
PARITY= 0.00000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 4

• fizzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1971, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

360
• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=1972, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 6

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=1973, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 5

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=1974, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 5

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=1976, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 5

  2. We don’t know the energy of the isomer in question. FIZCON should just lighten up and let science progress

     ERROR(S) FOUND IN MAT=1976, MF= 1, MT=451
     ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
     SEQUENCE NUMBER 2

361
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=1977, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER  5
```

Non-errors:

```
ERROR(S) FOUND IN MAT=1984, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE=  1.00000E+00  SUM=  0.00000E+00
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER  4
```

362
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=1986, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

dec-059_Pr_143.endf

• Passed All Checks!

dec-059_Pr_144.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1988, MF= 8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.20848E+06 SUM= 1.20063E+06

dec-059_Pr_144m1.endf

• Passed All Checks!

dec-059_Pr_145.endf

• Passed All Checks!

dec-059_Pr_146.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1991, MF= 8, MT=457
GAMMA ENERGY (GE) SUMUP FAILURE
WHOLE= 1.05502E+06 SUM= 9.87651E+05
SEQUENCE NUMBER 3

dec-059_Pr_147.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1992, MF= 8, MT=457
BETA ENERGY (BE) SUMUP FAILURE
WHOLE= 6.73341E+05 SUM= 7.54221E+05
SEQUENCE NUMBER 3
GAMMA ENERGY (GE) SUMUP FAILURE
WHOLE= 9.29150E+05 SUM= 7.98180E+05
SEQUENCE NUMBER 3

363
Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1993, MF= 8, MT=457
BETA ENERGY (BE) SUMUP FAILURE
  WHOLE= 1.28001E+06 SUM= 1.65663E+06 SEQUENCE NUMBER 3
GAMMA ENERGY (GE) SUMUP FAILURE
  WHOLE= 1.77660E+06 SUM= 9.37741E+05 SEQUENCE NUMBER 3

Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1994, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
BETA ENERGY (BE) SUMUP FAILURE
  WHOLE= 1.05915E+06 SUM= 1.64612E+06 SEQUENCE NUMBER 3
GAMMA ENERGY (GE) SUMUP FAILURE
  WHOLE= 2.33225E+06 SUM= 9.33709E+05 SEQUENCE NUMBER 3

Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=1995, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 3.33500E+06 SUM= 2.75891E+06 SEQUENCE NUMBER 1
BETA ENERGY (BE) SUMUP FAILURE
  WHOLE= 7.79922E+05 SUM= 9.83859E+05 SEQUENCE NUMBER 3
GAMMA ENERGY (GE) SUMUP FAILURE
  WHOLE= 1.33195E+06 SUM= 3.04763E+05 SEQUENCE NUMBER 3

Errors:

1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=1996, MF= 8, MT=457
FT VALUE TOO SMALL
  FT= 5.99476E+05 E= 3.39580E+06 I= 47 SEQUENCE NUMBER 108
fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1997, MF= 8, MT=457
   BETA ENERGY (BE) SUMUP FAILURE
   WHOLE= 1.13704E+06  SUM= 1.29499E+06  SEQUENCE NUMBER  3
   GAMMA ENERGY (GE) SUMUP FAILURE
   WHOLE= 1.36336E+06  SUM= 4.31422E+05  SEQUENCE NUMBER  3

fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=1999, MF= 8, MT=457
   E(MAXIMUM) > Q  E= 5.00000E+05  Q= 4.98760E+05  SEQUENCE NUMBER  402
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 5.76046E+06  SUM= 3.24089E+06  SEQUENCE NUMBER  1

fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=2000, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER  4
   E(MAXIMUM) > Q  E= 1.08000E+06  Q= 1.07596E+06  SEQUENCE NUMBER  475
   TOTAL ENERGY RELEASE SUMUP FAILURE

fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=2001, MF= 8, MT=457
   E(MAXIMUM) > Q  E= 1.84000E+06  Q= 1.83600E+06  SEQUENCE NUMBER  464
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 6.67932E+06  SUM= 3.85627E+06  SEQUENCE NUMBER  1
• fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=2002, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.02930E+00 BEFORE SEQUENCE NUMBER 676
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 8.55291E+06 SUM= 5.59748E+06 SEQUENCE NUMBER 1

• fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=2003, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00127E+00 BEFORE SEQUENCE NUMBER 657
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 7.58928E+06 SUM= 4.42663E+06 SEQUENCE NUMBER 1

• fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=2004, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.01163E+00 BEFORE SEQUENCE NUMBER 798
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 8.77306E+06 SUM= 5.53774E+06 SEQUENCE NUMBER 1

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2005, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 7.78509E+06 SUM= 4.37919E+06 SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

366
**fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2006, MF=8, MT=457
NO DECAY SPECTRA GIVEN

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<th>5</th>
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--- dec-060_Nd_125.endf

**fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2007, MF=8, MT=457
PARITY = 0.000000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN

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--- dec-060_Nd_126.endf

**fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2008, MF=8, MT=457
7 IN RTYPE = 2.700000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN

<table>
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</table>

--- dec-060_Nd_127.endf

**fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2009, MF=8, MT=457
NO DECAY SPECTRA GIVEN

| SEQUENCE NUMBER | 5 |

--- dec-060_Nd_128.endf

**fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2010, MF=8, MT=457
NO DECAY SPECTRA GIVEN

| SEQUENCE NUMBER | 5 |

--- 367
• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2011, MF=8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2012, MF=8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!

• Passed All Checks!

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2015, MF=8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2016, MF=8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!
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• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=2029, MF= 8, MT=457
     BRANCHING RATIO SUMUP FAILURE
     WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=2030, MF= 8, MT=457
     BRANCHING RATIO SUMUP FAILURE
     WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

• fizcon Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=2031, MF= 8, MT=457
     PARTICLE ENERGY (AE) SUMUP FAILURE
     WHOLE= 1.90363E+06  SUM= 1.85218E+06  SEQUENCE NUMBER 3
     ALPHA AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 1.85218E+06  SUM= 1.90517E+06

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=2032, MF= 8, MT=457
     BRANCHING RATIO SUMUP FAILURE
     WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
     NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5
fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2033, MF= 8, MT=457  
   BRANCHING RATIO SUMUP FAILURE  
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4  
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2035, MF= 8, MT=457  
   BRANCHING RATIO SUMUP FAILURE  
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4  
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=2036, MF= 8, MT=457  
   BETA ENERGY (BE) SUMUP FAILURE  
   WHOLE= 4.60887E+05  SUM= 5.24960E+05  SEQUENCE NUMBER 3  
   GAMMA ENERGY (GE) SUMUP FAILURE  
   WHOLE= 4.02037E+05  SUM= 3.83456E+05  SEQUENCE NUMBER 3

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2037, MF= 8, MT=457  
   T12 NOT IN RANGE  0.00000E+00 TO 1.00000E+24  SEQUENCE NUMBER 3  
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5
• **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=2038, MF= 8, MT=457
     **BETA ENERGY (BE) SUMUP FAILURE**
     WHOLE= 5.77359E+05  SUM= 6.09220E+05  SEQUENCE NUMBER 3
     **GAMMA ENERGY (GE) SUMUP FAILURE**
     WHOLE= 8.94671E+05  SUM= 8.51224E+05  SEQUENCE NUMBER 3

• **Passed All Checks!**

• **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=2040, MF= 8, MT=457
     **GAMMA ENERGY (GE) SUMUP FAILURE**
     WHOLE= 4.42851E+05  SUM= 2.65942E+05  SEQUENCE NUMBER 3

• **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=2041, MF= 8, MT=457
     **BETA ENERGY (BE) SUMUP FAILURE**
     WHOLE= 8.37246E+05  SUM= 9.47923E+05  SEQUENCE NUMBER 3
     **GAMMA ENERGY (GE) SUMUP FAILURE**
     WHOLE= 5.45995E+05  SUM= 4.57193E+05  SEQUENCE NUMBER 3

• **fizcon** Errors:

  1. All probability distributions should be normalized to 1, this one isn’t.

     ERROR(S) FOUND IN MAT=2042, MF= 8, MT=457
     **NORMALIZATION CHECK INTEGRAL= 1.00271E+00 BEFORE SEQUENCE NUMBER 272**
     **TOTAL ENERGY RELEASE SUMUP FAILURE**
     WHOLE= 4.50000E+06  SUM= 3.25189E+06  SEQUENCE NUMBER 1

...
1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=2043, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00120E+00 BEFORE SEQUENCE NUMBER 259
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 3.69000E+06 SUM= 1.94711E+06 SEQUENCE NUMBER 1

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2044, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 5.57300E+06 SUM= 3.11369E+06 SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2045, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 4.72600E+06 SUM= 2.55725E+06 SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2046, MF= 8, MT=457
   E(MAXIMUM) > Q E= 8.40000E+05 Q= 8.37000E+05 SEQUENCE NUMBER 458
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 6.59701E+06 SUM= 4.29754E+06 SEQUENCE NUMBER 1

373
• fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=2047, MF= 8, MT=457
   NORMALIZATION CHECK INTEGRAL= 1.00751E+00 BEFORE SEQUENCE NUMBER 443
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 5.67925E+06 SUM= 3.19152E+06 SEQUENCE NUMBER 1

   ... 

dec-060_Nd_161.endf

• fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=2048, MF= 8, MT=457
   NORMALIZATION CHECK INTEGRAL= 1.00798E+00 BEFORE SEQUENCE NUMBER 587
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 7.43086E+06 SUM= 4.88689E+06 SEQUENCE NUMBER 1

   ... 

dec-061_Pm_126.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2049, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5 

dec-061_Pm_127.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2050, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6 

dec-061_Pm_128.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=2051, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

----------------------------- dec-061_Pm_129.endf -----------------------------

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2052, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

----------------------------- dec-061_Pm_130.endf -----------------------------

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2053, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
PARITY= 0.000000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN

----------------------------- dec-061_Pm_131.endf -----------------------------

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2054, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

----------------------------- dec-061_Pm_132.endf -----------------------------

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2055, MF= 8, MT=457
7 IN RTYPE =  2.700000E+00 IS INVALID
NEAR SEQUENCE NUMBER
NO DECAY SPECTRA GIVEN

----------------------------- dec-061_Pm_133.endf -----------------------------
Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=2058, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 8.91000E+06 SUM= 9.04142E+06 SEQUENCE NUMBER 1
    E.C. MULTIPLICITY SUMUP FAILURE
    WHOLE= 1.00000E+00 SUM= 1.01500E+00
```

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2056, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

```
ERROR(S) FOUND IN MAT=2057, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6
```

```
ERROR(S) FOUND IN MAT=2059, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

```
ERROR(S) FOUND IN MAT=2059, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2
```

Non-errors:

```
376
```
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2060, MF= 8, MT=457
   NEGATIVE SPIN NOT ALLOWED                           SEQUENCE NUMBER  4
   SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL            SEQUENCE NUMBER  4
   PARITY= 0.000000E+00 NOT +1.0 OR -1.0               SEQUENCE NUMBER  4
   NO DECAY SPECTRA GIVEN                              SEQUENCE NUMBER  5

   dec-061_Pm_135m1.endf

   • fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2061, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN                              SEQUENCE NUMBER  5

   dec-061_Pm_136.endf

   • fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2062, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN                              SEQUENCE NUMBER  5

   dec-061_Pm_136m1.endf

   • fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2063, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN                              SEQUENCE NUMBER  5

   2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

   ERROR(S) FOUND IN MAT=2063, MF= 1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE       SEQUENCE NUMBER  2

   dec-061_Pm_137.endf

   • Passed All Checks!

   377
• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=2065, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 5

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=2066, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 5

• Passed All Checks!

• Passed All Checks!

• fizcon Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=2069, MF= 8, MT=457
     E.C. AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 9.51139E+05 SUM= 8.21224E+05

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=2070, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 5

  2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress
ERROR(S) FOUND IN MAT=2070, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE  SEQUENCE NUMBER  2

- Passed All Checks!

ERROR(S) FOUND IN MAT=2072, MF= 8, MT=457
E.C. MULTIPLICITY SUMUP FAILURE
WHOLE= 1.00000E+00  SUM= 1.00065E+00

- fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2073, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

- Passed All Checks!

ERROR(S) FOUND IN MAT=2076, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 6.44502E-03  SUM= 6.27200E-03
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 6.27200E-03  SUM= 6.45016E-03

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fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=2084, MF= 8, MT=457
   GAMMA ENERGY (GE) SUMUP FAILURE
   WHOLE= 3.18319E+05  SUM= 2.85529E+05  SEQUENCE NUMBER 3

Passed All Checks!

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2086, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 6

Passed All Checks!
ERROR(S) FOUND IN MAT=2087, MF= 8, MT=457
GAMMA ENERGY (GE) SUMUP FAILURE
WHOLE= 1.21324E+05 SUM= 7.82846E+04 SEQUENCE NUMBER 3

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2088, MF= 8, MT=457
GAMMA ENERGY (GE) SUMUP FAILURE
WHOLE= 1.87690E+06 SUM= 1.76920E+06 SEQUENCE NUMBER 3

• Passed All Checks!

ERROR(S) FOUND IN MAT=2090, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
NORMALIZATION CHECK INTEGRAL= 1.00166E+00 BEFORE SEQUENCE NUMBER 229
TOTAL ENERGY RELEASE SUMUP FAILURE

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=2091, MF= 8, MT=457
BETA ENERGY (BE) SUMUP FAILURE
WHOLE= 1.19370E+06 SUM= 1.38997E+06 SEQUENCE NUMBER 3
GAMMA ENERGY (GE) SUMUP FAILURE
WHOLE= 2.20472E+06 SUM= 1.70587E+06 SEQUENCE NUMBER 3

• fizcon Errors:
  1. Energies released in decay not adding up!

• fizcon Errors:
  1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=2092, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 4.36000E+06 SUM= 2.32865E+06 SEQUENCE NUMBER 1

• fizzcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2093, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 6.08000E+06 SUM= 3.77691E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE

• fizzcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2094, MF= 8, MT=457
  E(MAXIMUM) > Q  E= 3.20000E+05  Q= 3.17900E+05
TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 5.42999E+06 SUM= 2.93304E+06 SEQUENCE NUMBER 380

• fizzcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2095, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 7.30015E+06 SUM= 4.70075E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE

• fizzcon Errors:
  1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=2096, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 6.30610E+06 SUM= 3.45097E+06 SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

... dec-061_Pm_162.endf ...

- fazcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2097, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 8.40995E+06 SUM= 5.36442E+06 SEQUENCE NUMBER 1
   GAMMA AVERAGE ENERGY SUMUP FAILURE

... dec-061_Pm_163.endf ...

- fazcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
      this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2098, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

... dec-062_Sm_128.endf ...

- fazcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
      this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2099, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

... dec-062_Sm_129.endf ...

- fazcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
      this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2100, MF= 8, MT=457
   NEGATIVE SPIN NOT ALLOWED SEQUENCE NUMBER 4
   SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL SEQUENCE NUMBER 4
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

383
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2101, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2102, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2103, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2104, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

Passed All Checks!
ERROR(S) FOUND IN MAT=2106, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED SEQUENCE NUMBER 4
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL SEQUENCE NUMBER 4
PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• Passed All Checks!

dec-062_Sm_136.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2108, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

dec-062_Sm_137.endf

• Fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2109, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

dec-062_Sm_138.endf

• Passed All Checks!

dec-062_Sm_139.endf

• Fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2111, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

dec-062_Sm_140.endf

• Passed All Checks!

dec-062_Sm_141.endf

385
• Passed All Checks!

• *dec-062_Sm_141m1.endf*

• *fizcon* Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ```plaintext
    ERROR(S) FOUND IN MAT=2114, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 6
    ```

• *dec-062_Sm_142.endf*

• Passed All Checks!

• *dec-062_Sm_143.endf*

• Passed All Checks!

• *dec-062_Sm_143m1.endf*

• Passed All Checks!

• *dec-062_Sm_143m2.endf*

• *fizcon* Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ```plaintext
    ERROR(S) FOUND IN MAT=2118, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5
    ```

• *dec-062_Sm_144.endf*

• *fizcon* Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ```plaintext
    ERROR(S) FOUND IN MAT=2119, MF= 8, MT=457
    BRANCHING RATIO SUMUP FAILURE
    WHOLE= 1.00000E+00  SUM= 0.00000E+00
    SEQUENCE NUMBER 4
    ```

    ```plaintext
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5
    ```

• *dec-062_Sm_145.endf*

• Passed All Checks!

• *dec-062_Sm_146.endf*

386
• **fizcon Errors:**

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=2121, MF= 8, MT=457
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 2.52740E+06  SUM= 2.46000E+06  SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 2.46000E+06  SUM= 2.52938E+06

---

• **fizcon Errors:**

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=2122, MF= 8, MT=457
   GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER 8
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 2.30876E+06  SUM= 2.24760E+06  SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 2.24760E+06  SUM= 2.31055E+06

---

• **fizcon Errors:**

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=2123, MF= 8, MT=457
   GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER 8
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 1.98452E+06  SUM= 1.93230E+06  SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 1.93230E+06  SUM= 1.98604E+06

---

• **fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2124, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

---

387
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2125, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

Passed All Checks!

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2127, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

Passed All Checks!

388
Passed All Checks!

fizcon Errors:

1. Energies released in decay not adding up!
   ERROR(S) FOUND IN MAT=2133, MF= 8, MT=457
   GAMMA ENERGY (GE) SUMUP FAILURE
   WHOLE= 5.85109E+05 SUM= 3.69159E+05 SEQUENCE NUMBER 3

fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.
   ERROR(S) FOUND IN MAT=2134, MF= 8, MT=457
   NORMALIZATION CHECK INTEGRAL= 1.00318E+00 BEFORE SEQUENCE NUMBER 138
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 1.99900E+06 SUM= 9.45546E+05 SEQUENCE NUMBER 1

fizcon Errors:

1. Energies released in decay not adding up!
   ERROR(S) FOUND IN MAT=2135, MF= 8, MT=457
   RICC MUST BE GREATER THAN OR EQUAL TO RICK + RICL
   SEQUENCE NUMBER 53
   BETA MULTIPLICITY SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 9.97000E-01

fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.
   ERROR(S) FOUND IN MAT=2136, MF= 8, MT=457
   NORMALIZATION CHECK INTEGRAL= 1.00181E+00 BEFORE SEQUENCE NUMBER 199
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 2.82900E+06 SUM= 1.50070E+06 SEQUENCE NUMBER 1
Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=2137, MF= 8, MT=457
   NORMALIZATION CHECK INTEGRAL= 1.00118E+00 BEFORE SEQUENCE NUMBER 331
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 5.05000E+06 SUM= 3.38189E+06 SEQUENCE NUMBER 1

   ...

   dec-062_Sm_162.endf

Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=2138, MF= 8, MT=457
   NORMALIZATION CHECK INTEGRAL= 1.00100E+00 BEFORE SEQUENCE NUMBER 265
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 3.94100E+06 SUM= 2.22989E+06 SEQUENCE NUMBER 1

   ...

   dec-062_Sm_163.endf

Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=2139, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 5.90300E+06 SUM= 4.04919E+06 SEQUENCE NUMBER 1

   ...

   dec-062_Sm_164.endf

Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=2140, MF= 8, MT=457
   DQ NOT IN RANGE  0.00000E+00 TO  5.51000E+05 SEQUENCE NUMBER 6
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 5.24100E+06 SUM= 3.05383E+06 SEQUENCE NUMBER 1

   ...

   dec-062_Sm_165.endf

Errors:
1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=2141, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 7.00193E+06 SUM= 4.14608E+06 SEQUENCE NUMBER 1
GAMMA AVERAGE ENERGY SUMUP FAILURE
...
```

```
---dec-063_Eu_130.endf---
```

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2142, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

```
---dec-063_Eu_131.endf---
```

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2143, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6
```

```
---dec-063_Eu_132.endf---
```

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2144, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6
```

```
---dec-063_Eu_133.endf---
```

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2145, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

```
---dec-063_Eu_134.endf---
```

391
• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

      ERROR(S) FOUND IN MAT=2146, MF= 8, MT=457
      NO DECAY SPECTRA GIVEN
      SEQUENCE NUMBER 5

      dec-063_Eu_135.endf

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

      ERROR(S) FOUND IN MAT=2147, MF= 8, MT=457
      NO DECAY SPECTRA GIVEN
      SEQUENCE NUMBER 5

      dec-063_Eu_136.endf

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

      ERROR(S) FOUND IN MAT=2148, MF= 8, MT=457
      NO DECAY SPECTRA GIVEN
      SEQUENCE NUMBER 5

      dec-063_Eu_136m1.endf

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

      ERROR(S) FOUND IN MAT=2149, MF= 8, MT=457
      7 IN RTYPE = 2.70000E+00 IS INVALID
      NO DECAY SPECTRA GIVEN
      SEQUENCE NUMBER 6

      2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

      ERROR(S) FOUND IN MAT=2149, MF= 1, MT=451
      ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
      SEQUENCE NUMBER 2

      dec-063_Eu_136m2.endf

• **fizcon** Non-errors:

  392
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2150, MF= 8, MT=457  
    7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 5  
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

    ERROR(S) FOUND IN MAT=2150, MF= 1, MT=451  
    ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

---

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2151, MF= 8, MT=457  
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2152, MF= 8, MT=457  
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2153, MF= 8, MT=457  
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---

**Passed All Checks!**
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2155, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

   ERROR(S) FOUND IN MAT=2155, MF= 1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=2158, MF= 8, MT=457
   E.C. MULTIPLICITY SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 1.00060E+00

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!
- Passed All Checks!
  
  dec-063_Eu_146.endf

- Passed All Checks!
  
  dec-063_Eu_147.endf

- \texttt{fizcon} Errors:

  1. Energies released in decay not adding up!

    \begin{verbatim}
    ERROR(S) FOUND IN MAT=2164, MF= 8, MT=457
    PARTICLE ENERGY (AE) SUMUP FAILURE
       WHOLE= 6.57168E+01 SUM= 6.39760E+01 SEQUENCE NUMBER  3
    ALPHA AVERAGE ENERGY SUMUP FAILURE
       WHOLE= 6.39760E+01 SUM= 6.57678E+01
    \end{verbatim}

- \texttt{fizcon} Errors:

  1. Energies released in decay not adding up!

    \begin{verbatim}
    ERROR(S) FOUND IN MAT=2165, MF= 8, MT=457
    PARTICLE ENERGY (AE) SUMUP FAILURE
       WHOLE= 2.53902E-02 SUM= 2.47220E-02 SEQUENCE NUMBER  3
    ALPHA AVERAGE ENERGY SUMUP FAILURE
       WHOLE= 2.47220E-02 SUM= 2.54096E-02
    \end{verbatim}

- Passed All Checks!
  
  dec-063_Eu_148.endf

- Passed All Checks!
  
  dec-063_Eu_149.endf

- Passed All Checks!
  
  dec-063_Eu_150.endf

- Passed All Checks!
  
  dec-063_Eu_150m1.endf

- Passed All Checks!
  
  dec-063_Eu_151.endf

- \texttt{fizcon} Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    \begin{verbatim}
    ERROR(S) FOUND IN MAT=2169, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER  5
    \end{verbatim}

395
dec-063_Eu_152.endf

- Passed All Checks!

dec-063_Eu_152m1.endf

- Passed All Checks!

dec-063_Eu_152m2.endf

- Passed All Checks!

dec-063_Eu_153.endf

- \textit{fizcon} Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    \begin{verbatim}
    ERROR(S) FOUND IN MAT=2173, MF= 8, MT=457
    BRANCHING RATIO SUMUP FAILURE
    WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
    \end{verbatim}

dec-063_Eu_154.endf

- \textit{fizcon} Errors:

  1. Energies released in decay not adding up!

    \begin{verbatim}
    ERROR(S) FOUND IN MAT=2174, MF= 8, MT=457
    E.C. MULTIPLICITY SUMUP FAILURE
    WHOLE= 1.80000E-04 SUM= 5.10041E-05
    \end{verbatim}

dec-063_Eu_154m1.endf

- Passed All Checks!

dec-063_Eu_155.endf

- Passed All Checks!

dec-063_Eu_156.endf

- Passed All Checks!

dec-063_Eu_157.endf

- Passed All Checks!

dec-063_Eu_158.endf

- \textit{fizcon} Errors:
1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=2179, MF= 8, MT=457
   BETA ENERGY (BE) SUMUP FAILURE
   WHOLE= 8.19157E+05 SUM= 8.86709E+05 SEQUENCE NUMBER 3
   GAMMA ENERGY (GE) SUMUP FAILURE
   WHOLE= 1.36795E+06 SUM= 1.29708E+06 SEQUENCE NUMBER 3

---

de-063_Eu_159.endf

• fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=2180, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 2.51500E+06 SUM= 2.57821E+06 SEQUENCE NUMBER 1
   BETA MULTIPLICITY SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 1.01850E+00
   BETA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 8.67899E+05 SUM= 8.62599E+05

---

de-063_Eu_160.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2181, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---

de-063_Eu_161.endf

• fizcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

   ERROR(S) FOUND IN MAT=2182, MF= 8, MT=457
   E(MAXIMUM) > Q E= 3.71000E+06 Q= 3.70500E+06 SEQUENCE NUMBER 8
   NORMALIZATION CHECK INTEGRAL= 1.00546E+00 BEFORE SEQUENCE NUMBER 213
   TOTAL ENERGY RELEASE SUMUP FAILURE

---

de-063_Eu_162.endf

• fizcon Errors:

397
1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=2183, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00392E+00 BEFORE SEQUENCE NUMBER 301
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 5.58500E+06 SUM= 4.49460E+06 SEQUENCE NUMBER 1

• fizzcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=2184, MF= 8, MT=457
E(MAXIMUM) > Q  E= 4.68000E+06  Q= 4.67500E+06 SEQUENCE NUMBER 8
NORMALIZATION CHECK INTEGRAL= 1.00280E+00 BEFORE SEQUENCE NUMBER 270
TOTAL ENERGY RELEASE SUMUP FAILURE

• fizzcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=2185, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00261E+00 BEFORE SEQUENCE NUMBER 384
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 6.44000E+06 SUM= 5.29969E+06 SEQUENCE NUMBER 1

• fizzcon Errors:

1. All probability distributions should be normalized to 1, this one isn’t.

ERROR(S) FOUND IN MAT=2186, MF= 8, MT=457
NORMALIZATION CHECK INTEGRAL= 1.00139E+00 BEFORE SEQUENCE NUMBER 372
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 5.78673E+06 SUM= 4.25439E+06 SEQUENCE NUMBER 1

• fizzcon Non-errors:

398
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2187, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

   dec-063_Eu_167.endf

   * fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2188, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

   dec-064_Gd_134.endf

   * fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2189, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

   dec-064_Gd_135.endf

   * fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2190, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 5
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

   dec-064_Gd_136.endf

   * fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2191, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

   dec-064_Gd_137.endf
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2192, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 4
   SEQUENCE NUMBER 5

---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2193, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2194, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2195, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

   ERROR(S) FOUND IN MAT=2195, MF= 1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
   SEQUENCE NUMBER 2

---

• fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2196, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

---

```
• dec-064_Gd_141.endf
```

- **fizcon Errors:**

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2197, MF= 8, MT=457
E.C. MULTIPLICITY SUMUP FAILURE
WHOLE= 1.00000E+00  SUM= 9.99000E-01

---

```
• dec-064_Gd_141m1.endf
```

- **fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2198, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

---

```
• dec-064_Gd_142.endf
```

- Passed All Checks!

```
• dec-064_Gd_143.endf
```

- Passed All Checks!

```
• dec-064_Gd_143m1.endf
```

- Passed All Checks!

```
• dec-064_Gd_144.endf
```

- **fizcon Errors:**

1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=2202, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 5.95548E+01  E= 1.42739E+06  I= 68

---

```
• dec-064_Gd_145.endf
```

- Passed All Checks!
Passed All Checks!

fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2207, MF= 8, MT=457
  GAMMA RAY NEEDED, SOURCE MODE= 4            SEQUENCE NUMBER 8
  PARTICLE ENERGY (AE) SUMUP FAILURE           
    WHOLE= 3.26871E+06 SUM= 3.18269E+06          SEQUENCE NUMBER 3
  ALPHA AVERAGE ENERGY SUMUP FAILURE           
    WHOLE= 3.18269E+06 SUM= 3.27121E+06

Passed All Checks!

fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2209, MF= 8, MT=457
  GAMMA RAY NEEDED, SOURCE MODE= 4            SEQUENCE NUMBER 8
  PARTICLE ENERGY (AE) SUMUP FAILURE           
    WHOLE= 2.79869E+06 SUM= 2.72600E+06          SEQUENCE NUMBER 3
  ALPHA AVERAGE ENERGY SUMUP FAILURE           
    WHOLE= 2.72600E+06 SUM= 2.80078E+06

fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2210, MF= 8, MT=457
  PARTICLE ENERGY (AE) SUMUP FAILURE           
    WHOLE= 2.13510E-02 SUM= 2.08000E-02          SEQUENCE NUMBER 3
  ALPHA AVERAGE ENERGY SUMUP FAILURE           
    WHOLE= 2.08000E-02 SUM= 2.13667E-02
• **fizcon** Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=2211, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 2.20299E+06 SUM= 2.14650E+06 SEQUENCE NUMBER 3
```

```
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.14650E+06 SUM= 2.20458E+06
```

- **Passed All Checks!**

---

**dec-064_Gd_153.endf**

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2213, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

---

**dec-064_Gd_154.endf**

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2214, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

- **Passed All Checks!**

---

**dec-064_Gd_155.endf**

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

---

**dec-064_Gd_155m1.endf**

• **Passed All Checks!**

---

**dec-064_Gd_156.endf**

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

403
ERROR(S) FOUND IN MAT=2216, MF=8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE=1.00000E+00 SUM=0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---
dec-064_Gd_157.endf

* fizzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2217, MF=8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE=1.00000E+00 SUM=0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---
dec-064_Gd_158.endf

* fizzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2218, MF=8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE=1.00000E+00 SUM=0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---
dec-064_Gd_159.endf

* Passed All Checks!

---
dec-064_Gd_160.endf

* fizzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2220, MF=8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---
dec-064_Gd_161.endf

* fizzcon Errors:

1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=2221, MF=8, MT=457
BETA MULTIPLICITY SUMUP FAILURE
  WHOLE=1.00000E+00 SUM=1.00100E+00
BETA AVERAGE ENERGY SUMUP FAILURE
  WHOLE=5.59164E+05 SUM=5.56578E+05

-------------------dec-064_Gd_162.endf-------------------

• Passed All Checks!

-------------------dec-064_Gd_163.endf-------------------

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

    ERROR(S) FOUND IN MAT=2223, MF=8, MT=457
    NORMALIZATION CHECK INTEGRAL=1.00349E+00 BEFORE SEQUENCE NUMBER 205
    TOTAL ENERGY RELEASE SUMUP FAILURE
      WHOLE=3.12000E+06 SUM=1.97411E+06 SEQUENCE NUMBER 1

    ...

-------------------dec-064_Gd_164.endf-------------------

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

    ERROR(S) FOUND IN MAT=2224, MF=8, MT=457
    NORMALIZATION CHECK INTEGRAL=1.00410E+00 BEFORE SEQUENCE NUMBER 149
    TOTAL ENERGY RELEASE SUMUP FAILURE
      WHOLE=2.21900E+06 SUM=1.34004E+06 SEQUENCE NUMBER 1

    ...

-------------------dec-064_Gd_165.endf-------------------

• fizcon Errors:
  1. All probability distributions should be normalized to 1, this one isn’t.

    ERROR(S) FOUND IN MAT=2225, MF=8, MT=457
    NORMALIZATION CHECK INTEGRAL=1.00363E+00 BEFORE SEQUENCE NUMBER 226
    TOTAL ENERGY RELEASE SUMUP FAILURE
      WHOLE=4.05200E+06 SUM=3.11608E+06 SEQUENCE NUMBER 1

    ...

-------------------dec-064_Gd_166.endf-------------------

• fizcon Non-errors:

405
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2226, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

SEQUENCE NUMBER 5

```
dec-064_Gd_167.endf
```

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2227, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

SEQUENCE NUMBER 5

```
dec-064_Gd_168.endf
```

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2228, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

SEQUENCE NUMBER 5

```
dec-064_Gd_169.endf
```

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2229, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

SEQUENCE NUMBER 5

```
dec-065_Tb_135.endf
```

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2230, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

SEQUENCE NUMBER 5

```
dec-065_Tb_136.endf
```

• *fizcon* Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2231, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2232, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2233, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2234, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2235, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID
   NO DECAY SPECTRA GIVEN
   NEAR SEQUENCE NUMBER 6
   SEQUENCE NUMBER 6

---

407
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2236, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

 Sequence number 5

- dec-065_Tb_141m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2237, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

 Sequence number 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=2237, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE

 Sequence number 2

- dec-065_Tb_142.endf

• fizcon Errors:

1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=2238, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 6.31712E+05 E= 8.05611E+06 I= 18
FT VALUE TOO SMALL
FT= 3.76199E+05 E= 8.48535E+06 I= 22
E.C. MULTIPLICITY SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 9.90100E-01

- dec-065_Tb_142m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2239, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

 Sequence number 5

- dec-065_Tb_143.endf

408
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT=2240, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5
   ```

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress.

   ```
   ERROR(S) FOUND IN MAT=2241, MF=1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
   SEQUENCE NUMBER 2
   ```

   └── dec-065_Tb_144m1.endf

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT=2243, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6
   ```

   └── dec-065_Tb_145m1.endf

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT=2244, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5
   ```

   └── dec-065_Tb_145m1.endf

**Passed All Checks!**

└── dec-065_Tb_144m1.endf
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
   
   ```
   ERROR(S) FOUND IN MAT=2245, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5
   ```

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress
   
   ```
   ERROR(S) FOUND IN MAT=2245, MF= 1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
   SEQUENCE NUMBER 2
   ```

Passed All Checks!

Errors:
1. Beta spectrum integral too small
   
   ```
   ERROR(S) FOUND IN MAT=2250, MF= 8, MT=457
   FT VALUE TOO SMALL
   FT= 2.37597E+02  E= 1.45950E+06  I= 26
   SEQUENCE NUMBER 68
   ```
• Passed All Checks!

---

text:

**fizcon Errors:**

1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=2252, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 1.87833E+02 E= 1.41024E+06 I= 66
E.C. MULTIPLICITY SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 1.03900E+00

---

**fizcon Errors:**

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2254, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 9.03398E+02 SUM= 8.79780E+02
E.C. MULTIPLICITY SUMUP FAILURE
WHOLE= 9.99780E-01 SUM= 1.00000E+00
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 8.79780E+02 SUM= 9.04079E+02

---

**fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2255, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

---

**fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=2256, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

ERROR(S) FOUND IN MAT=2257, MF= 8, MT=457
E.C. AVERAGE ENERGY SUMUP FAILURE
WHOLE= 4.06472E+03 SUM= 3.19942E+03

dec-065_Tb_151m1.endf
• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2258, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 1.78755E+01 E= 1.45436E+06 I= 9

dec-065_Tb_152m1.endf
• fizcon Errors:
  1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=2259, MF= 8, MT=457
TOO MANY DISCRETE SPECTRA FOR CODE TO PROCESS
TOO MANY DISCRETE SPECTRA FOR CODE TO PROCESS
ELECTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.78080E+04 SUM= 2.01660E+05

dec-065_Tb_152m1.endf
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2260, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

dec-065_Tb_153.endf
• Passed All Checks!
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2262, MF= 8, MT=457
   PARITY= 0.000000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2263, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

   ERROR(S) FOUND IN MAT=2263, MF= 1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2264, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

   ERROR(S) FOUND IN MAT=2264, MF= 1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

• Passed All Checks!
• Passed All Checks!

dec-065_Tb_156m1.endf

• fizcon Errors:
  1. Energies released in decay not adding up!

      ERROR(S) FOUND IN MAT=2267, MF= 8, MT=457
      TOTAL ENERGY RELEASE SUMUP FAILURE
      WHOLE= 6.96000E+04 SUM= 4.86049E+04 SEQUENCE NUMBER 1

dec-065_Tb_156m2.endf

• Passed All Checks!

dec-065_Tb_157.endf

• fizcon Errors:
  1. Energies released in decay not adding up!

      ERROR(S) FOUND IN MAT=2269, MF= 8, MT=457
      TOTAL ENERGY RELEASE SUMUP FAILURE
      WHOLE= 6.01000E+04 SUM= 6.28474E+04 SEQUENCE NUMBER 1

dec-065_Tb_158.endf

• Passed All Checks!

dec-065_Tb_158m1.endf

• Passed All Checks!

dec-065_Tb_159.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

      ERROR(S) FOUND IN MAT=2272, MF= 8, MT=457
      BRANCHING RATIO SUMUP FAILURE
      WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
      NO DECAY SPECTRA GIVEN
      SEQUENCE NUMBER 5

dec-065_Tb_160.endf

• Passed All Checks!

dec-065_Tb_161.endf

414
Passed All Checks!

dec-065_Tb_162.endf

Passed All Checks!

dec-065_Tb_163.endf

Passed All Checks!

dec-065_Tb_164.endf

Passed All Checks!

dec-065_Tb_165.endf

Passed All Checks!

dec-065_Tb_166.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2279, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

   dec-065_Tb_167.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2280, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

   dec-065_Tb_168.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2281, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

   dec-065_Tb_169.endf

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2282, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

   -------------- dec-065_Tb_170.endf --------------

   • fzncon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2283, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

   -------------- dec-065_Tb_171.endf --------------

   • fzncon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2284, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

   -------------- dec-066_Dy_138.endf --------------

   • fzncon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2285, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

   -------------- dec-066_Dy_139.endf --------------

   • fzncon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2286, MF=8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID
   NEAR SEQUENCE NUMBER 5
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

   -------------- dec-066_Dy_140.endf --------------
• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT=2287, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5
   ```

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT=2288, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5
   ```

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT=2289, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6
   ```

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT=2290, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5
   ```

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT=2291, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5
   ```

417
2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress.

ERROR(S) FOUND IN MAT=2291, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE  SEQUENCE NUMBER  2

• Passed All Checks!

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2293, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER  6
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER  6

• Passed All Checks!

• Passed All Checks!

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2297, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

418
• **fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2298, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  
   SEQUENCE NUMBER 6

• **fizcon Errors:**

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=2299, MF= 8, MT=457
   E.C. MULTIPLICITY SUMUP FAILURE  
   WHOLE= 1.00000E+00  SUM= 9.97700E-01

• Passed All Checks!

• Passed All Checks!

• **fizcon Errors:**

1. Beta spectrum integral too small

   ERROR(S) FOUND IN MAT=2302, MF= 8, MT=457
   FT VALUE TOO SMALL  
   SEQUENCE NUMBER 14
   FT= 9.26786E+00  E= 1.39780E+06  I= 2  
   SEQUENCE NUMBER 14
   PARTICLE ENERGY (AE) SUMUP FAILURE  
   WHOLE= 1.43414E+06  SUM= 1.39689E+06  
   SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE  
   WHOLE= 1.39689E+06  SUM= 1.43521E+06

• **fizcon Errors:**

1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=2303, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 2.33923E+05 SUM= 2.27886E+05 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.27886E+05 SUM= 2.34095E+05

dec-066_Dy_152.endf

• fizcon Errors:

   1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2304, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 3.72347E+03 SUM= 3.62800E+03 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 3.62800E+03 SUM= 3.72617E+03

dec-066_Dy_153.endf

• fizcon Errors:

   1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2305, MF= 8, MT=457
TOO MANY DISCRETE SPECTRA FOR CODE TO PROCESS SEQUENCE NUMBER 918
TOO MANY DISCRETE SPECTRA FOR CODE TO PROCESS SEQUENCE NUMBER 2518
ELECTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 8.00039E+04 SUM= 9.33342E+04

dec-066_Dy_154.endf

• fizcon Errors:

   1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2306, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 2.94455E+06 SUM= 2.87000E+06 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.87000E+06 SUM= 2.94662E+06

dec-066_Dy_155.endf

• fizcon Errors:

   1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=2307, MF= 8, MT=457
E.C. MULTIPLICITY SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 1.03915E+00

• dec-066_Dy_156.endf

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2308, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
NO DECAY SPECTRA GIVEN

• dec-066_Dy_157.endf

Passed All Checks!

• dec-066_Dy_157m1.endf

Passed All Checks!

• dec-066_Dy_158.endf

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2311, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
NO DECAY SPECTRA GIVEN

• dec-066_Dy_159.endf

Passed All Checks!

• dec-066_Dy_160.endf

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2313, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
NO DECAY SPECTRA GIVEN
• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2314, MF=8, MT=457
    BRANCHING RATIO SUMUP FAILURE
    WHOLE=1.000000E+00 SUM=0.000000E+00 SEQUENCE NUMBER 4
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2315, MF=8, MT=457
    BRANCHING RATIO SUMUP FAILURE
    WHOLE=1.000000E+00 SUM=0.000000E+00 SEQUENCE NUMBER 4
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2316, MF=8, MT=457
    BRANCHING RATIO SUMUP FAILURE
    WHOLE=1.000000E+00 SUM=0.000000E+00 SEQUENCE NUMBER 4
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2317, MF=8, MT=457
    BRANCHING RATIO SUMUP FAILURE
    WHOLE=1.000000E+00 SUM=0.000000E+00 SEQUENCE NUMBER 4
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

422
Passed All Checks!

dec-066_Dy_165m1.endf

Passed All Checks!

dec-066_Dy_166.endf

Passed All Checks!

dec-066_Dy_167.endf

Passed All Checks!

dec-066_Dy_168.endf

Passed All Checks!

dec-066_Dy_169.endf

Passed All Checks!

dec-066_Dy_170.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2324, MF=8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

dec-066_Dy_171.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2325, MF=8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

dec-066_Dy_172.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2326, MF=8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

423
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2327, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2328, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
PARITY= 0.00000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2329, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2330, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
PARITY= 0.00000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2331, MF= 8, MT=457
7 IN RTYPE =  2.70000E+00 IS INVALID
NO DECAY SPECTRA GIVEN
NEAR SEQUENCE NUMBER 6
SEQUENCE NUMBER 6
```

---

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2332, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

---

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2333, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

---

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2334, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

---

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2335, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

---
• Passed All Checks!

dec-067_Ho_148m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2337, MF= 8, MT=457
   7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

   ERROR(S) FOUND IN MAT=2337, MF= 1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

dec-067_Ho_148m2.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2338, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

dec-067_Ho_149.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2339, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

dec-067_Ho_149m1.endf

• Passed All Checks!

dec-067_Ho_150.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

426
ERROR(S) FOUND IN MAT=2341, MF= 8, MT=457
NO DECAY SPECTRA GIVEN                          SEQUENCE NUMBER  5

dec-067_Ho_150m1.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2342, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 8.16500E+06   SUM= 7.08665E+06                     SEQUENCE NUMBER  1
    E.C. MULTIPLICITY SUMUP FAILURE
    WHOLE= 1.00000E+00   SUM= 9.57000E-01
    E.C. AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 1.55788E+06   SUM= 1.27778E+06

dec-067_Ho_151.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2343, MF= 8, MT=457
NO DECAY SPECTRA GIVEN                          SEQUENCE NUMBER  6

dec-067_Ho_151m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2344, MF= 8, MT=457
NO DECAY SPECTRA GIVEN                          SEQUENCE NUMBER  6

dec-067_Ho_152.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2345, MF= 8, MT=457
NO DECAY SPECTRA GIVEN                          SEQUENCE NUMBER  6

dec-067_Ho_152m1.endf

427
• Passed All Checks!

--dec-067_Ho_153.endf--

• fizcon Errors:

  1. Energies released in decay not adding up!

      ERROR(S) FOUND IN MAT=2347, MF= 8, MT=457
      PARTICLE ENERGY (AE) SUMUP FAILURE
          WHOLE= 2.04623E+03  SUM= 1.99410E+03  SEQUENCE NUMBER 3
      ALPHA AVERAGE ENERGY SUMUP FAILURE
          WHOLE= 1.99410E+03  SUM= 2.04769E+03

--dec-067_Ho_153m1.endf--

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

      ERROR(S) FOUND IN MAT=2348, MF= 8, MT=457
      NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 6

--dec-067_Ho_154.endf--

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

      ERROR(S) FOUND IN MAT=2349, MF= 8, MT=457
      NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 6

--dec-067_Ho_154m1.endf--

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

      ERROR(S) FOUND IN MAT=2350, MF= 8, MT=457
      NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 6

  2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and
     let science progress

      ERROR(S) FOUND IN MAT=2350, MF= 1, MT=451
      ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE  SEQUENCE NUMBER 2

428
• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ```
     ERROR(S) FOUND IN MAT=2351, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 5
     ```

• **Passed All Checks!**

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ```
     ERROR(S) FOUND IN MAT=2353, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 5
     ```

• **Passed All Checks!**

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ```
     ERROR(S) FOUND IN MAT=2355, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 6
     ```

• **fizcon** Errors:

  1. Beta spectrum integral too small

     ```
     ERROR(S) FOUND IN MAT=2356, MF= 8, MT=457
     FT VALUE TOO SMALL
     FT= 1.76623E+02  E= 1.37687E+06  I= 97
     SEQUENCE NUMBER 261
     ```

• **fizcon** Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2357, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

dec-067_Ho_158m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2358, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

dec-067_Ho_158m2.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2359, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

dec-067_Ho_159.endf

• fizcon Errors:

1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=2360, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 1.56724E+02 E= 1.52841E+06 I= 88
DRIS NOT IN RANGE 0.00000E+00 TO 1.00000E-05

dec-067_Ho_159m1.endf

• Passed All Checks!

dec-067_Ho_160.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2362, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

dec-067_Ho_160m1.endf

430
• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2363, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 6

• **fizcon** Errors:

  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=2367, MF= 8, MT=457
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 2.14000E+06 SUM= 2.11822E+06
    SEQUENCE NUMBER 1
    E.C. MULTIPLICITY SUMUP FAILURE
    WHOLE= 1.00000E+00 SUM= 9.82390E-01
    E.C. AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 1.87397E+04 SUM= 1.87735E+04

• **fizcon** Errors:

  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=2368, MF= 8, MT=457
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 9.19070E+05 SUM= 8.26539E+05
    SEQUENCE NUMBER 1
    E.C. MULTIPLICITY SUMUP FAILURE
    WHOLE= 3.80000E-01 SUM= 1.45817E-01

• **fizcon** Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2369, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 2.55500E+03  SUM=-4.98037E+04  SEQUENCE NUMBER 1

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2373, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=2378, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2379, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• Passed All Checks!

• fizcon Errors:
  
  1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=2381, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 8.26012E+05  E= 2.00740E+06  I= 37

• fizcon Non-errors:
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2382, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=2384, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=2385, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=2386, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=2387, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=2388, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2389, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2390, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 5
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2391, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=2392, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=2393, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

---

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=2394, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6
```

---

• **fizcon** Errors:

1. Energies released in decay not adding up!

```plaintext
ERROR(S) FOUND IN MAT=2395, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
E(DISCRETE) > Q  E= 4.65110E+06  Q= 0.00000E+00 SEQUENCE NUMBER 222
E(DISCRETE) > Q  E= 4.65800E+06  Q= 0.00000E+00 SEQUENCE NUMBER 224
```

---

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=2396, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

---

• **fizcon** Errors:

1. Energies released in decay not adding up!

```plaintext
```

---

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
```

---

• **fizcon** Errors:

1. Energies released in decay not adding up!

```plaintext
```

---

Passed All Checks!

```plaintext
```
ERROR(S) FOUND IN MAT=2398, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 2.83730E+06 SUM= 2.45562E+06 SEQUENCE NUMBER 1

---

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2399, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 4.48696E+06 SUM= 4.37191E+06 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 4.37191E+06 SUM= 4.49020E+06

---

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2400, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 2.54198E+04 SUM= 2.47722E+04 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.47722E+04 SUM= 2.54380E+06

---

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2401, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 2.00984E+04 SUM= 1.95896E+04 SEQUENCE NUMBER 3
E.C. MULTIPLICITY SUMUP FAILURE
WHOLE= 9.95300E-01 SUM= 9.99978E-01
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.95896E+04 SUM= 2.01126E+04

---

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=2402, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER  6

• Passed All Checks!

dec-068_Er_156.endf

• Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2404, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER  5

dec-068_Er_157.endf

• Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2405, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER  5

dec-068_Er_158.endf

• Passed All Checks!

dec-068_Er_159.endf

• Passed All Checks!

dec-068_Er_160.endf

• Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2408, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER  5

dec-068_Er_161.endf

• Errors:
  1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=2409, MF= 8, MT=457
E.C. MULTIPLICITY SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 8.85000E-01

- fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=2410, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

- fizcon Errors:
  1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=2411, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 1.92603E+00 E= 1.21000E+06 I= 28
SEQUENCE NUMBER 77

- fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=2412, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

- Passed All Checks!

- fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.
ERROR(S) FOUND IN MAT=2414, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2415, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!

ERROR(S) FOUND IN MAT=2417, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• passed All Checks!

ERROR(S) FOUND IN MAT=2419, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2423, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

SEQUENCE NUMBER 5

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2424, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

SEQUENCE NUMBER 5

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2425, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

SEQUENCE NUMBER 5

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2426, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

SEQUENCE NUMBER 5

441
• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2427, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2428, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2429, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2430, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2431, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

```
ERROR(S) FOUND IN MAT=2432, MF= 8, MT=457
  7 IN RTYPE =  2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 6
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6
```

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

```
ERROR(S) FOUND IN MAT=2433, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

```
ERROR(S) FOUND IN MAT=2434, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

Passed All Checks!

Passed All Checks!
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2438, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

   ERROR(S) FOUND IN MAT=2438, MF=1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
   SEQUENCE NUMBER 2

---

Passed All Checks!

---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2440, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2441, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2442, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress.
ERROR(S) FOUND IN MAT=2442, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE  SEQUENCE NUMBER  2

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2443, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2444, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2445, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

•  Passed All Checks!
• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2448, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

---

dec-069_Tm_160m1.endf

---

dec-069_Tm_161.endf

---

dec-069_Tm_162.endf

---

dec-069_Tm_162m1.endf

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2451, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

---

dec-069_Tm_162m1.endf

---

dec-069_Tm_163.endf

---

dec-069_Tm_163m1.endf

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2452, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

---

dec-069_Tm_163m1.endf

---

dec-069_Tm_164.endf

---

dec-069_Tm_164m1.endf

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2453, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

---

dec-069_Tm_164m1.endf

---

dec-069_Tm_165.endf

---

dec-069_Tm_165m1.endf

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2454, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

---

dec-069_Tm_165m1.endf

---

dec-069_Tm_166.endf

---

dec-069_Tm_166m1.endf

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2455, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

---

dec-069_Tm_166m1.endf

---

dec-069_Tm_167.endf

---

dec-069_Tm_167m1.endf

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2456, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

---

dec-069_Tm_167m1.endf

---

dec-069_Tm_168.endf

---

dec-069_Tm_168m1.endf

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2457, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

---

dec-069_Tm_168m1.endf

---

dec-069_Tm_169.endf

---

dec-069_Tm_169m1.endf

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2458, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

---

dec-069_Tm_169m1.endf

---

dec-069_Tm_170.endf

---

dec-069_Tm_170m1.endf

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2459, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

---

dec-069_Tm_170m1.endf

---

dec-069_Tm_171.endf

---

dec-069_Tm_171m1.endf

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2460, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

---

dec-069_Tm_171m1.endf

---

dec-069_Tm_172.endf

---

dec-069_Tm_172m1.endf

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2461, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

---

dec-069_Tm_172m1.endf

---

dec-069_Tm_173.endf

---

dec-069_Tm_173m1.endf

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2462, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

---

dec-069_Tm_173m1.endf

---

dec-069_Tm_174.endf

---

dec-069_Tm_174m1.endf

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2463, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

---

dec-069_Tm_174m1.endf

---

dec-069_Tm_175.endf

---

dec-069_Tm_175m1.endf

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2464, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

---

dec-069_Tm_175m1.endf

---

dec-069_Tm_176.endf

---

dec-069_Tm_176m1.endf

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2465, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

---

dec-069_Tm_176m1.endf

---

dec-069_Tm_177.endf

---

dec-069_Tm_177m1.endf

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2466, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

---

dec-069_Tm_177m1.endf
2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=2453, MF=1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE  SEQUENCE NUMBER 2

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2454, MF=8, MT=457
TOO MANY DISCRETE SPECTRA FOR CODE TO PROCESS  SEQUENCE NUMBER 729
TOO MANY DISCRETE SPECTRA FOR CODE TO PROCESS  SEQUENCE NUMBER 2415
ELECTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 6.48987E+04  SUM= 7.03322E+04

fizcon Errors:
1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=2455, MF=8, MT=457
FT VALUE TOO SMALL
FT= 6.09102E+05  E= 1.49720E+06  I= 122  SEQUENCE NUMBER 314

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2456, MF=8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 6

fizcon Errors:
1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=2457, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 1.59170E+06  SUM= 9.41310E+05  SEQUENCE NUMBER  1
  E.C. MULTIPLICITY SUMUP FAILURE
  WHOLE= 1.00000E+00  SUM= 4.92230E-01

dec-069_Tm_166.endf

• Passed All Checks!

dec-069_Tm_166m1.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2459, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

dec-069_Tm_167.endf

• Passed All Checks!

dec-069_Tm_168.endf

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2461, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 1.67736E+06  SUM= 1.74153E+06  SEQUENCE NUMBER  1
  E.C. MULTIPLICITY SUMUP FAILURE
  WHOLE= 9.99900E-01  SUM= 1.04235E+00

dec-069_Tm_169.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2462, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
  WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER  4
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

dec-069_Tm_170.endf

448
• Passed All Checks!
  dec-069_Tm_171.endf

• Passed All Checks!
  dec-069_Tm_172.endf

• Passed All Checks!
  dec-069_Tm_173.endf

• Passed All Checks!
  dec-069_Tm_174.endf

• Passed All Checks!
  dec-069_Tm_175.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2468, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5

  dec-069_Tm_176.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2469, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5

  dec-069_Tm_177.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2470, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5

  dec-069_Tm_178.endf

• fizcon Non-errors:

  449
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2471, MF=8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

---
dec-069_Tm_179.endf

- fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2472, MF=8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

---
dec-070_Yb_148.endf

- fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2473, MF=8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

---
dec-070_Yb_149.endf

- fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2474, MF=8, MT=457
NEGATIVE SPIN NOT ALLOWED
СПИН SHOULD BE INTEGRAL OR HALF INTEGRAL
ПАРИТЕТ = 0.00000E+00 NOT +1.0 OR -1.0
7 IN RTYPE = 2.70000E+00 IS INVALID
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 4

---
dec-070_Yb_150.endf

- fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2475, MF=8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

---
dec-070_Yb_150.endf

- fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2475, MF=8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

450
• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

        ERROR(S) FOUND IN MAT=2476, MF=8, MT=457
        NO DECAY SPECTRA GIVEN
        SEQUENCE NUMBER 5

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

        ERROR(S) FOUND IN MAT=2477, MF=8, MT=457
        NO DECAY SPECTRA GIVEN
        SEQUENCE NUMBER 6

  2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

        ERROR(S) FOUND IN MAT=2477, MF=1, MT=451
        ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
        SEQUENCE NUMBER 2

• Passed All Checks!

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

        ERROR(S) FOUND IN MAT=2479, MF=8, MT=457
        NO DECAY SPECTRA GIVEN
        SEQUENCE NUMBER 6

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

        ERROR(S) FOUND IN MAT=2480, MF=8, MT=457
        NO DECAY SPECTRA GIVEN
        SEQUENCE NUMBER 6

451
fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2481, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2482, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2483, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2484, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

452
Passed All Checks!

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2487, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

**fizcon** Errors:

1. Beta spectrum integral too small

   ERROR(S) FOUND IN MAT=2488, MF= 8, MT=457
   FT VALUE TOO SMALL
   SEQUENCE NUMBER 143
   FT= 5.52689E+01 E= 1.48665E+06 I= 60

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

**fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=2490, MF= 8, MT=457
   E(DISCRETE) > Q E= 8.87300E+05 Q= 8.80000E+05
   SEQUENCE NUMBER 100
   E(DISCRETE) > Q E= 9.28700E+05 Q= 8.80000E+05
   SEQUENCE NUMBER 103
   E(DISCRETE) > Q E= 1.01920E+06 Q= 8.80000E+05
   SEQUENCE NUMBER 106
   E.C. MULTIPLICITY SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 9.94000E-01

**fizcon** Errors:

453
1. Beta spectrum integral too small

```
ERROR(S) FOUND IN MAT=2491, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 1.31492E+02 E= 1.38896E+06 I= 129
SEQUENCE NUMBER 287
```

dec-070_Yb_166.endf

- Passed All Checks!

```
ERROR(S) FOUND IN MAT=2493, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 1.74399E+02 E= 1.66120E+06 I= 92
SEQUENCE NUMBER 228
```

dec-070_Yb_167.endf

- fizcon Errors:

1. Beta spectrum integral too small

```
ERROR(S) FOUND IN MAT=2494, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
NO DECAY SPECTRA GIVEN
```

dec-070_Yb_168.endf

- fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2494, MF= 8, MT=457
```

dec-070_Yb_169.endf

- Passed All Checks!

```
```

dec-070_Yb_169m1.endf

- fizcon Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=2496, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 2.41999E+04 SUM= 2.17957E+04
```

dec-070_Yb_170.endf

- fizcon Non-errors:

454
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires 
this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2497, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
  WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER  4
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

```
dec-070_Yb_171.endf
```

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires 
this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2498, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
  WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER  4
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

```
dec-070_Yb_171m1.endf
```

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires 
this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2499, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN  SEQUENCE GIVEN
```

```
dec-070_Yb_172.endf
```

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires 
this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2500, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
  WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER  4
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

```
dec-070_Yb_173.endf
```

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires 
this even if we can’t evaluate it.

455
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2504, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2505, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!
• Passed All Checks!

dec-070_Yb_177m1.endf

• Passed All Checks!

dec-070_Yb_178.endf

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=2509, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER  5

dec-070_Yb_179.endf

• Passed All Checks!

dec-070_Yb_180.endf

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=2511, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER  5

dec-070_Yb_181.endf

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=2512, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER  5

dec-071_Lu_150.endf

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=2513, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER  6

dec-071_Lu_151.endf
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2514, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 6

dec-071_Lu_152.endf

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2515, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
PARITY= 0.00000E+00 NOT +1.0 OR -1.0
7 IN RTYPE = 2.70000E+00 IS INVALID
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 4
SEQUENCE NUMBER 4
SEQUENCE NUMBER 4
SEQUENCE NUMBER 6

NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 6

dec-071_Lu_153.endf

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2516, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 6

dec-071_Lu_153m1.endf

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2517, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 6

dec-071_Lu_154.endf

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

458
ERROR(S) FOUND IN MAT=2518, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

---
dec-071_Lu_154m1.endf
---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2519, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=2519, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
SEQUENCE NUMBER 2

---
dec-071_Lu_155.endf
---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2520, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

---
dec-071_Lu_155m1.endf
---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2521, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

---
dec-071_Lu_155m2.endf
---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2522, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=2523, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

dec-071_Lu_157.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=2525, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0

dec-071_Lu_157m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=2526, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

460
ERROR(S) FOUND IN MAT=2527, MF=8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

ERROR(S) FOUND IN MAT=2528, MF=8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

ERROR(S) FOUND IN MAT=2529, MF=8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

ERROR(S) FOUND IN MAT=2530, MF=8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

ERROR(S) FOUND IN MAT=2530, MF=1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

461
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2531, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

```
SEQUENCE NUMBER 5
dec-071_Lu_161m1.endf
```

- **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
  this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2532, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

```
SEQUENCE NUMBER 5
dec-071_Lu_162.endf
```

- **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
  this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2533, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

```
SEQUENCE NUMBER 5
dec-071_Lu_162m1.endf
```

- **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
  this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2534, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

```
SEQUENCE NUMBER 5
dec-071_Lu_162m2.endf
```

- **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
  this even if we can’t evaluate it.

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and
let science progress

```
ERROR(S) FOUND IN MAT=2534, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
```

```
SEQUENCE NUMBER 2
dec-071_Lu_162m2.endf
```

- **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
  this even if we can’t evaluate it.
2. We don’t know the energy of the isomer in question. FIZCON should just lighten up and let science progress.

ERROR(S) FOUND IN MAT=2535, MF=1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

Passed All Checks!

• dec-071_Lu_166m1.endf
ERROR(S) FOUND IN MAT=2540, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

dec-071_Lu_166m2.endf

* fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2541, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

dec-071_Lu_167.endf

* Passed All Checks!

dec-071_Lu_167m1.endf

* fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2543, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

dec-071_Lu_168.endf

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=2543, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE

dec-071_Lu_168m1.endf

* fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2544, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

dec-071_Lu_168m1.endf

* fizcon Errors:

1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=2545, MF= 8, MT=457
E.C. MULTIPLICITY SUMUP FAILURE
    WHOLE= 9.96000E-01 SUM= 5.91026E-01
E.C. AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 8.06746E+04 SUM= 5.05578E+04

dec-071_Lu_169.endf

• fizcon Errors:

  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2546, MF= 8, MT=457
    TOO MANY DISCRETE SPECTRA FOR CODE TO PROCESS  SEQUENCE NUMBER 768
    TOO MANY DISCRETE SPECTRA FOR CODE TO PROCESS  SEQUENCE NUMBER 2482
    ELECTRON AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 3.99974E+04 SUM= 4.65914E+04

dec-071_Lu_169m1.endf

• Passed All Checks!

dec-071_Lu_170.endf

• Passed All Checks!

dec-071_Lu_170m1.endf

• Passed All Checks!

dec-071_Lu_171.endf

• Passed All Checks!

dec-071_Lu_171m1.endf

• Passed All Checks!

dec-071_Lu_172.endf

• Passed All Checks!

dec-071_Lu_172m1.endf

• fizcon Errors:

  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2553, MF= 8, MT=457
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 4.18600E+04 SUM= 3.54432E+04  SEQUENCE NUMBER 1

465
Passed All Checks!

fizcon
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2557, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

Passed All Checks!

fizcon
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2562, MF= 8, MT=457
SPI NOT IN RANGE 0.00000E+00 TO 1.60000E+01 SEQUENCE NUMBER 5
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

Passed All Checks!
Passed All Checks!

dec-071_Lu_178m1.endf

Passed All Checks!

dec-071_Lu_179.endf

Passed All Checks!

dec-071_Lu_179m1.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2566, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

Passed All Checks!

dec-071_Lu_180.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2568, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

Passed All Checks!

dec-071_Lu_180m1.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2569, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

Passed All Checks!

dec-071_Lu_181.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2569, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

Passed All Checks!

dec-071_Lu_182.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=2570, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
PARITY= 0.000000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN

• Passed All Checks!

dec-071_Lu_183.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=2572, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=2573, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=2574, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=2575, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
Errors:

1. Energies released in decay not adding up!
   
   ERROR(S) FOUND IN MAT=2576, MF= 8, MT=457
   GAMMA RAY NEEDED, SOURCE MODE= 4
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 5.84288E+06 SUM= 5.69681E+06
   SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 5.69681E+06 SUM= 5.84687E+06

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
   
   ERROR(S) FOUND IN MAT=2577, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
   
   ERROR(S) FOUND IN MAT=2578, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
   
   ERROR(S) FOUND IN MAT=2579, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=2580, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

dec-072_Hf_161.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2581, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

dec-072_Hf_162.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2582, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

dec-072_Hf_163.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2583, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

dec-072_Hf_164.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2584, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

dec-072_Hf_165.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=2585, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

=================================================================================================================

• Passed All Checks!

=================================================================================================================

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2587, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

=================================================================================================================

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2588, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

=================================================================================================================

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2589, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

=================================================================================================================

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2590, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

=================================================================================================================

471
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2591, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

---

   dec-072_Hf_171m1.endf

• Passed All Checks!

---

   dec-072_Hf_172.endf

• Passed All Checks!

---

   dec-072_Hf_173.endf

• Passed All Checks!

---

   dec-072_Hf_174.endf

• **fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=2595, MF= 8, MT=457
   E(DISCRETE) > Q  E= 2.50000E+06  Q= 2.49310E+06
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 2.49310E+06  SUM= 2.55888E+06
   SEQUENCE NUMBER 1

   ... • Passed All Checks!

---

   dec-072_Hf_175.endf

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2597, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 4

---

   dec-072_Hf_177.endf

• **fizcon** Non-errors:

472
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2598, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

   ● Passed All Checks!

   dec-072_Hf_177m1.endf

   ● fizcon Non-errors:

   1. This is an isomer with a very high spin, much too much for FIZCON

   ERROR(S) FOUND IN MAT=2600, MF= 8, MT=457
   SPI NOT IN RANGE  0.00000E+00 TO  1.60000E+01  SEQUENCE NUMBER 5

   dec-072_Hf_177m2.endf

   ● Passed All Checks!

   dec-072_Hf_177m2.endf

   • Passed All Checks!

   dec-072_Hf_178m1.endf

   ● fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2601, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

   dec-072_Hf_178m1.endf

   ● Passed All Checks!

   dec-072_Hf_178m2.endf

   ● Passed All Checks!

   dec-072_Hf_179.endf

   ● fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2604, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

473
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2607, MF=8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE=1.00000E+00 SUM=0.00000E+00 SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=2608, MF=8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE=1.14150E+06 SUM=1.11527E+06 SEQUENCE NUMBER 1
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2615, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2616, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2617, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2618, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2619, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5
• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2620, MF=8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2621, MF=8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 6

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2622, MF=8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 6

• fizcon Errors:

  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=2623, MF=8, MT=457
    GAMMA RAY NEEDED, SOURCE MODE=4
    PARTICLE ENERGY (AE) SUMUP FAILURE
      WHOLE=6.37232E+06 SUM=6.21400E+06
    SEQUENCE NUMBER 8
    SEQUENCE NUMBER 3
    ALPHA AVERAGE ENERGY SUMUP FAILURE
      WHOLE=6.21400E+06 SUM=6.37660E+06

• fizcon Errors:

  1. Energies released in decay not adding up!

476
ERROR(S) FOUND IN MAT=2624, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
  WHOLE= 7.94130E+06  SUM= 7.74400E+06  SEQUENCE NUMBER  3
ALPHA AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 7.74400E+06  SUM= 7.94663E+06

--------dec-073_Ta_158.endf
•  fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=2625, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

--------dec-073_Ta_158m1.endf
•  fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=2626, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

--------dec-073_Ta_159.endf
•  fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=2627, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

--------dec-073_Ta_159m1.endf
•  fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=2628, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

--------dec-073_Ta_160.endf
•  fizcon Non-errors:

477
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2629, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

---

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2630, MF= 8, MT=457
PARITY FIELD MUST BE 0.0 FOR UNKNOWN SPIN
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 4
SEQUENCE NUMBER 6

---

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2631, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

---

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2632, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

---

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2633, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

---
• **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=2634, MF= 8, MT=457
     E.C. MULTIPLICITY SUMUP FAILURE
     WHOLE= 1.00000E+00 SUM= 9.98000E-01

     dec-073_Ta_165.endf

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

     ERROR(S) FOUND IN MAT=2635, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN

     dec-073_Ta_166.endf

• Passed All Checks!

     dec-073_Ta_167.endf

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

     ERROR(S) FOUND IN MAT=2637, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN

     dec-073_Ta_168.endf

• Passed All Checks!

     dec-073_Ta_169.endf

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

     ERROR(S) FOUND IN MAT=2639, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN

     dec-073_Ta_170.endf

• Passed All Checks!

     dec-073_Ta_171.endf

479
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

```
ERROR(S) FOUND IN MAT=2641, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER  5
```

---

```
dec-073_Ta_172.endf
```

• Passed All Checks!

---

```
dec-073_Ta_173.endf
```

• Passed All Checks!

---

```
dec-073_Ta_174.endf
```

• Passed All Checks!

---

```
dec-073_Ta_175.endf
```

• Passed All Checks!

---

```
dec-073_Ta_176.endf
```

• Passed All Checks!

---

```
dec-073_Ta_176m1.endf
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

```
ERROR(S) FOUND IN MAT=2647, MF= 8, MT=457
PARITY FIELD MUST BE 0.0 FOR UNKNOWN SPIN
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER  4
```

---

```
dec-073_Ta_176m2.endf
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

```
ERROR(S) FOUND IN MAT=2648, MF= 8, MT=457
SPI NOT IN RANGE  0.00000E+00 TO  1.60000E+01
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER  5
```

---

```
dec-073_Ta_177.endf
```

480
• Passed All Checks!

• Passed All Checks!

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2651, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2652, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2654, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2655, MF= 8, MT=457
    SPI NOT IN RANGE  0.00000E+00 TO  1.60000E+01 SEQUENCE NUMBER 5
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

481
Passed All Checks!

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2657, MF=8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE=1.00000E+00 SUM=0.00000E+00
NO DECAY SPECTRA GIVEN

Passed All Checks!

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2658, MF=8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE=1.00000E+00 SUM=0.00000E+00
NO DECAY SPECTRA GIVEN

Passed All Checks!

Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2660, MF=8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE=1.62630E+04 SUM=1.21755E+04

Passed All Checks!
• Passed All Checks!

______________dec-073_Ta_185.endf______________

• Passed All Checks!

______________dec-073_Ta_185m1.endf______________

• fizcon  Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2665, MF=8, MT=457
    PARITY= 0.00000E+00 NOT +1.0 OR -1.0
    NO DECAY SPECTRA GIVEN

    SEQUENCE NUMBER 4
    SEQUENCE NUMBER 5

______________dec-073_Ta_186.endf______________

• Passed All Checks!

______________dec-073_Ta_187.endf______________

• fizcon  Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2667, MF=8, MT=457
    NO DECAY SPECTRA GIVEN

    SEQUENCE NUMBER 5

______________dec-073_Ta_188.endf______________

• fizcon  Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2668, MF=8, MT=457
    NO DECAY SPECTRA GIVEN

    SEQUENCE NUMBER 5

______________dec-073_Ta_189.endf______________

• fizcon  Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2669, MF=8, MT=457
    NO DECAY SPECTRA GIVEN

    SEQUENCE NUMBER 5
dec-073_Ta_190.endf

- **fizcon** Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

\[
\begin{align*}
\text{ERROR(S) FOUND IN MAT=2670, MF= 8, MT=457} & \\
\text{NO DECAY SPECTRA GIVEN} & \quad \text{SEQUENCE NUMBER 5}
\end{align*}
\]

dec-074_W_158.endf

- **fizcon** Errors:
  1. Energies released in decay not adding up!

\[
\begin{align*}
\text{ERROR(S) FOUND IN MAT=2671, MF= 8, MT=457} & \\
\text{GAMMA RAY NEEDED, SOURCE MODE= 4} & \quad \text{SEQUENCE NUMBER 8} \\
\text{PARTICLE ENERGY (AE) SUMUP FAILURE} & \\
\text{WHOLE= 6.60817E+06 SUM= 6.44500E+06} & \quad \text{SEQUENCE NUMBER 3} \\
\text{ALPHA AVERAGE ENERGY SUMUP FAILURE} & \\
\text{WHOLE= 6.44500E+06 SUM= 6.61254E+06} &
\end{align*}
\]

dec-074_W_159.endf

- **fizcon** Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

\[
\begin{align*}
\text{ERROR(S) FOUND IN MAT=2672, MF= 8, MT=457} & \\
\text{NO DECAY SPECTRA GIVEN} & \quad \text{SEQUENCE NUMBER 6}
\end{align*}
\]

dec-074_W_160.endf

- **fizcon** Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

\[
\begin{align*}
\text{ERROR(S) FOUND IN MAT=2673, MF= 8, MT=457} & \\
\text{NO DECAY SPECTRA GIVEN} & \quad \text{SEQUENCE NUMBER 6}
\end{align*}
\]

dec-074_W_161.endf

- **fizcon** Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

484
ERROR(S) FOUND IN MAT=2674, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2675, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2676, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2677, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2678, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• *fizcon* Errors:

1. Energies released in decay not adding up!

485
ERROR(S) FOUND IN MAT=2679, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 1.69862E+03 SUM= 1.65865E+03 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.65865E+03 SUM= 1.69964E+03

• fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2680, MF= 8, MT=457
PARITY FIELD MUST BE 0.0 FOR UNKNOWN SPIN SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2681, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2682, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2683, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

486
• *fizcon* Non-errors:
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2684, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN  
    SEQUENCE NUMBER 5

    dec-074_W_172.endf

• *fizcon* Non-errors:
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2685, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN  
    SEQUENCE NUMBER 5

    dec-074_W_173.endf

• *fizcon* Non-errors:
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2686, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN  
    SEQUENCE NUMBER 5

    dec-074_W_174.endf

• *fizcon* Non-errors:
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2687, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN  
    SEQUENCE NUMBER 5

    dec-074_W_175.endf

• *fizcon* Non-errors:
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2688, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN  
    SEQUENCE NUMBER 5

    dec-074_W_176.endf

487
• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=2689, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER  5

   _______________dec-074_W_177.endf ____________________________

• Passed All Checks!

   _______________dec-074_W_178.endf ____________________________

• Passed All Checks!

   _______________dec-074_W_179.endf ____________________________

• Passed All Checks!

   _______________dec-074_W_179m1.endf ____________________________

• **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=2693, MF= 8, MT=457
     E.C. MULTIPLICITY SUMUP FAILURE
     WHOLE= 2.90000E-03 SUM= 1.80001E-03

   _______________dec-074_W_180.endf ____________________________

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=2694, MF= 8, MT=457
     T12 NOT IN RANGE  0.00000E+00 TO  1.00000E+24
     SEQUENCE NUMBER  3
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER  5

   _______________dec-074_W_180m1.endf ____________________________

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=2695, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER  5

   488
**Passed All Checks!**

**Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2697, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

**Passed All Checks!**

**Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2698, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

**Passed All Checks!**

**Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2700, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

**Passed All Checks!**

**Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=2703, MF= 8, MT=457
   T12 NOT IN RANGE  0.00000E+00 TO  1.00000E+24   SEQUENCE NUMBER  3
   NO DECAY SPECTRA GIVEN   SEQUENCE NUMBER  5

------------------------------------------------------------------------
file: dec-074_W_186m1.endf
------------------------------------------------------------------------

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2704, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN   SEQUENCE NUMBER  5

------------------------------------------------------------------------
file: dec-074_W_187.endf
------------------------------------------------------------------------

  2. We don’t know the energy of the isomer in question. FIZCON should just lighten up and let science progress.

ERROR(S) FOUND IN MAT=2704, MF= 1, MT=451
   ELIS NOT IN RANGE  0.00000E+00 TO  3.00000E+06   SEQUENCE NUMBER  3

------------------------------------------------------------------------
file: dec-074_W_190.endf
------------------------------------------------------------------------

• Passed All Checks!

------------------------------------------------------------------------
file: dec-074_W_188.endf
------------------------------------------------------------------------

• Passed All Checks!

------------------------------------------------------------------------
file: dec-074_W_189.endf
------------------------------------------------------------------------

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2707, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN   SEQUENCE NUMBER  5

------------------------------------------------------------------------
file: dec-074_W_190[end].endf
------------------------------------------------------------------------

• Passed All Checks!

------------------------------------------------------------------------
file: dec-074_W_190m1.endf
------------------------------------------------------------------------

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.


ERROR(S) FOUND IN MAT=2709, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2710, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2711, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2712, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2713, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=2714, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

```
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.
```

ERROR(S) FOUND IN MAT=2715, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

```
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.
```

ERROR(S) FOUND IN MAT=2716, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

```
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.
```

ERROR(S) FOUND IN MAT=2717, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

```
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.
```

ERROR(S) FOUND IN MAT=2718, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

```
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.
```

492
ERROR(S) FOUND IN MAT=2719, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
____________________________________

• fizzcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2720, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
____________________________________

• fizzcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2721, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
____________________________________

• fizzcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2722, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
____________________________________

• fizzcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

493
ERROR(S) FOUND IN MAT=2724, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2725, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and
   let science progress

ERROR(S) FOUND IN MAT=2725, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2726, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
PARITY= 0.000000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2727, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
ERROR(S) FOUND IN MAT=2728, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
PARITY= 0.000000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=2728, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE

262x536

dec-075_Re_170.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2729, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

262x526

dec-075_Re_171.endf

• Passed All Checks!

262x516

dec-075_Re_172.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2731, MF= 8, MT=457
PARITY= 0.000000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN

299x5

dec-075_Re_172m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2732, MF= 8, MT=457
PARITY= 0.000000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN

495
2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress.

```
ERROR(S) FOUND IN MAT=2732, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2
```

```
dec-075_Re_173.endf
```

- **fizcon** Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2733, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

```
dec-075_Re_174.endf
```

- **fizcon** Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2734, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

```
dec-075_Re_175.endf
```

- **fizcon** Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2735, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

```
dec-075_Re_176.endf
```

- Passed All Checks!

```
dec-075_Re_177.endf
```

- **fizcon** Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2737, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

496
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2738, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

Errors:
1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=2740, MF= 8, MT=457
FT VALUE TOO SMALL SEQUENCE NUMBER 233
FT= 8.68271E+05 E= 1.54344E+06 I= 107 SEQUENCE NUMBER 233
FT VALUE TOO SMALL SEQUENCE NUMBER 235
FT= 9.42760E+05 E= 1.57218E+06 I= 108 SEQUENCE NUMBER 235
FT VALUE TOO SMALL SEQUENCE NUMBER 237
FT= 8.95398E+05 E= 1.62328E+06 I= 109 SEQUENCE NUMBER 237
• Passed All Checks!

---

dec-075_Re_185.endf

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=2748, MF=8, MT=457
     BRANCHING RATIO SUMUP FAILURE
     WHOLE=1.00000E+00 SUM=0.00000E+00 SEQUENCE NUMBER 4
     NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---

dec-075_Re_186.endf

• Passed All Checks!

---

dec-075_Re_186m1.endf

• Passed All Checks!

---

dec-075_Re_187.endf

• fizcon Non-errors:

  1. FIZCON apparently has a bug in its calculation of log(FT) values that causes it to have trouble with nearly stable nuclei

     ERROR(S) FOUND IN MAT=2751, MF=8, MT=457

     ERROR CALCULATING BETA SPECTRUM INTEGRAL
     ERROR CALCULATING BETA SPECTRUM INTEGRAL
     FT VALUE TOO SMALL SEQUENCE NUMBER 8
     FT=0.00000E+00 E=2.46900E+03 I=1 SEQUENCE NUMBER 8

---

dec-075_Re_188.endf

• Passed All Checks!

---

dec-075_Re_188m1.endf

• Passed All Checks!

---

dec-075_Re_189.endf

• Passed All Checks!

---

dec-075_Re_190.endf

• Passed All Checks!

498
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=2756, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=2757, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=2758, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=2759, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=2760, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

499
• **fizcon Errors:**

  1. Energies released in decay not adding up!

    \[
    \text{ERROR(S) FOUND IN MAT=2761, MF= 8, MT=457}
    \]

    PARTICLE ENERGY (AE) SUMUP FAILURE

    \[
    \begin{align*}
    \text{WHOLE} &= 6.76501\times10^6 \\
    \text{SUM} &= 6.60200\times10^6
    \end{align*}
    \]

    SEQUENCE NUMBER 3

    ALPHA AVERAGE ENERGY SUMUP FAILURE

    \[
    \begin{align*}
    \text{WHOLE} &= 6.60200\times10^6 \\
    \text{SUM} &= 6.76927\times10^6
    \end{align*}
    \]

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    \[
    \text{ERROR(S) FOUND IN MAT=2762, MF= 8, MT=457}
    \]

    NO DECAY SPECTRA GIVEN

    SEQUENCE NUMBER 5

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    \[
    \text{ERROR(S) FOUND IN MAT=2763, MF= 8, MT=457}
    \]

    NO DECAY SPECTRA GIVEN

    SEQUENCE NUMBER 6

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    \[
    \text{ERROR(S) FOUND IN MAT=2764, MF= 8, MT=457}
    \]

    NO DECAY SPECTRA GIVEN

    SEQUENCE NUMBER 6

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=2765, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2766, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2767, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2768, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2769, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• Passed All Checks!

dec-076_0s_167.endf

•

dec-076_0s_168.endf

•

dec-076_0s_169.endf

•

dec-076_0s_170.endf

•

dec-076_0s_171.endf

•

dec-076_0s_172.endf

501
fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2771, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

------------- dec-076_0s_173.endf -------------

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2772, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

------------- dec-076_0s_174.endf -------------

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2773, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

------------- dec-076_0s_175.endf -------------

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2774, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

------------- dec-076_0s_176.endf -------------

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2775, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

------------- dec-076_0s_177.endf -------------

502
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2776, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5
dec-076_os_178.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2777, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5
dec-076_os_179.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2778, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5
dec-076_os_180.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2779, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5
dec-076_os_181.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2780, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5
dec-076_os_181m1.endf
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=2781, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

   __dec-076_os_182.endf__

• Passed All Checks!

   __dec-076_os_183.endf__

• **fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=2783, MF= 8, MT=457
   E.C. MULTIPLICITY SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 1.02619E+00

   __dec-076_os_183m1.endf__

• **fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=2784, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 1.99822E+06 SUM= 1.84581E+06
   SEQUENCE NUMBER 1
   E.C. MULTIPLICITY SUMUP FAILURE
   WHOLE= 8.50000E-01 SUM= 7.27770E-01

   __dec-076_os_184.endf__

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=2785, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

   __dec-076_os_185.endf__

• Passed All Checks!

   __dec-076_os_186.endf__

504
• fizzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2787, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   --------------------------------
   Sequence Number 5
   --------------------------------

   dec-076 Os_187.endf

• fizzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2788, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00
   NO DECAY SPECTRA GIVEN

   --------------------------------
   Sequence Number 4
   Sequence Number 5
   --------------------------------

   dec-076 Os_188.endf

• fizzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2789, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00
   NO DECAY SPECTRA GIVEN

   --------------------------------
   Sequence Number 4
   Sequence Number 5
   --------------------------------

   dec-076 Os_189.endf

• fizzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2790, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00
   NO DECAY SPECTRA GIVEN

   --------------------------------
   Sequence Number 4
   Sequence Number 5
   --------------------------------

   dec-076 Os_189m1.endf

• Passed All Checks!

   --------------------------------
   dec-076 Os_190.endf

505
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2792, MF=8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 0.00000E+00     SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN     SEQUENCE NUMBER 5

   ___________________________________________________________
dec-076_os_190m1.endf

• Passed All Checks!

   ___________________________________________________________
dec-076_os_191.endf

• Passed All Checks!

   ___________________________________________________________
dec-076_os_191m1.endf

• Passed All Checks!

   ___________________________________________________________
dec-076_os_192.endf

• Passed All Checks!

   ___________________________________________________________
dec-076_os_192m1.endf

• Passed All Checks!

   ___________________________________________________________
dec-076_os_193.endf

• Passed All Checks!

   ___________________________________________________________
dec-076_os_194.endf

• Passed All Checks!
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2800, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2801, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2802, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 6

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2803, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 7

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2804, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 6
• **fizcon** Errors:

1. At least one gamma ray needed for given source mode

```
ERROR(S) FOUND IN MAT=2805, MF= 8, MT=457
GAMMA RAY NEEDED, SOURCE MODE=    7    SEQUENCE NUMBER  13
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2806, MF= 8, MT=457
NO DECAY SPECTRA GIVEN    SEQUENCE NUMBER  6
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2807, MF= 8, MT=457
NO DECAY SPECTRA GIVEN    SEQUENCE NUMBER  7
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2808, MF= 8, MT=457
NO DECAY SPECTRA GIVEN    SEQUENCE NUMBER  7
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2809, MF= 8, MT=457
NO DECAY SPECTRA GIVEN    SEQUENCE NUMBER  5
```
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2810, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2811, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2812, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2813, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2814, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7
2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress.

ERROR(S) FOUND IN MAT=2814, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

dec-077_Ir_171.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2815, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

dec-077_Ir_171m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2816, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

dec-077_Ir_172.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2817, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

dec-077_Ir_172m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=2818, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

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<td>6</td>
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</tbody>
</table>

---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2819, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
PARITY= 0.00000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN

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<th>SEQUENCE NUMBER</th>
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<tbody>
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<td>6</td>
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</tbody>
</table>

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dec-077_Ir_173m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2820, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

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dec-077_Ir_174.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2821, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

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dec-077_Ir_174m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2822, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

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---

dec-077_Ir_175.endf

• fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2823, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2824, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2825, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 3.07455E+03 SUM= 3.00660E+03
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 3.00660E+03 SUM= 3.07618E+03

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2826, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2827, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2828, MF= 8, MT=457
   
   NECESSARY SPIN NOT ALLOWED SEQUENCE NUMBER 4
   SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL SEQUENCE NUMBER 4
   PARITY= 0.000000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

   513
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2834, MF=8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

dec-077_Ir_186m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2835, MF=8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=2835, MF=1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
SEQUENCE NUMBER 2

dec-077_Ir_187.endf

• Passed All Checks!

dec-077_Ir_187m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2837, MF=8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

dec-077_Ir_188.endf

• Passed All Checks!

dec-077_Ir_188m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=2839, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

---

dec-077_Ir_189.endf
- Passed All Checks!

---

dec-077_Ir_189m1.endf
- Passed All Checks!

---

dec-077_Ir_189m2.endf
- Passed All Checks!

---

dec-077_Ir_190.endf
- Passed All Checks!

---

dec-077_Ir_190m1.endf
- Passed All Checks!

---

dec-077_Ir_190m2.endf
- Passed All Checks!

---

dec-077_Ir_191.endf
- Passed All Checks!

---

dec-077_Ir_191m1.endf
- Passed All Checks!

---

dec-077_Ir_191m2.endf
- Passed All Checks!

---

fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2844, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 2.61000E+04 SUM= 1.72132E+04

---

dec-077_Ir_190m2.endf
- Passed All Checks!

---

dec-077_Ir_191.endf
- Passed All Checks!

---

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=2846, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
NO DECAY SPECTRA GIVEN

---

dec-077_Ir_191m1.endf
- Passed All Checks!

---

dec-077_Ir_191m2.endf
- Passed All Checks!

---

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=2848, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!

dec-077_Ir_192.endf

• Passed All Checks!

dec-077_Ir_192m1.endf

• Passed All Checks!

dec-077_Ir_192m2.endf

• Passed All Checks!

dec-077_Ir_193.endf

• fizzcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=2852, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!

dec-077_Ir_193m1.endf

• Passed All Checks!

dec-077_Ir_194.endf

• Passed All Checks!

dec-077_Ir_194m1.endf

• Passed All Checks!

dec-077_Ir_194m2.endf

• Passed All Checks!

dec-077_Ir_195.endf

• Passed All Checks!

dec-077_Ir_195m1.endf
• Passed All Checks!

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ```
    ERROR(S) FOUND IN MAT=2860, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
    ```

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ```
    ERROR(S) FOUND IN MAT=2861, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
    ```

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ```
    ERROR(S) FOUND IN MAT=2862, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6
    ```

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ```
    ERROR(S) FOUND IN MAT=2863, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
    ```

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=2864, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2865, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Errors:

  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2866, MF= 8, MT=457
GAMMA RAY NEEDED, SOURCE MODE= 4
PARTICLE ENERGY (AE) SUMUP FAILURE
  WHOLE= 7.14923E+06 SUM= 6.98200E+06
  SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 6.98200E+06 SUM= 7.15346E+06

• fizcon Errors:

  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2867, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
  WHOLE= 6.94570E+06 SUM= 6.78418E+06
  SEQUENCE NUMBER 3
ALPHA MULTIPLICITY SUMUP FAILURE
  WHOLE= 1.00000E+00 SUM= 9.93000E-01
ALPHA AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 6.78418E+06 SUM= 6.94976E+06

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2868, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

518
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2869, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2870, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2871, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2872, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2873, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

519
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2874, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2875, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2876, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2877, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=2878, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

520
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2879, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2880, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2881, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2882, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2883, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
• **fizcon Errors:**

  1. Beta spectrum integral too small

```
ERROR(S) FOUND IN MAT=2884, MF= 8, MT=457
  FT VALUE TOO SMALL
  FT= 3.11360E+01 E= 1.37616E+06 I= 90
  PARTICLE ENERGY (AE) SUMUP FAILURE
  WHOLE= 7.81978E+01 SUM= 7.65340E+01
  ALPHA AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 7.65340E+01 SUM= 7.82363E+01
```

• **Passed All Checks!**

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2886, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN
```

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2887, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN
```

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=2888, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN
```
• Passed All Checks!

---

dec-078_Pt_188.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2890, MF=8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 9.88589E-01 SUM= 9.67993E-01 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 9.67993E-01 SUM= 9.89055E-01

---

dec-078_Pt_189.endf

• Passed All Checks!

---

dec-078_Pt_190.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2892, MF=8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 3.24184E+06 SUM= 3.17500E+06 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 3.17500E+06 SUM= 3.24334E+06

---

dec-078_Pt_191.endf

• Passed All Checks!

---

dec-078_Pt_192.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2894, MF=8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---

dec-078_Pt_193.endf

• fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2895, MF=8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 5.66000E+04 SUM= 2.26543E+04 SEQUENCE NUMBER 1

• Passed All Checks!

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2897, MF=8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2898, MF=8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2900, MF=8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2903, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

525
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2909, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2910, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2911, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2912, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2914, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 7

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2915, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 6

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2916, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 7

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2917, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2918, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 5
• **fizcon** Errors:

  1. Energies released in decay not adding up!

```plaintext
  ERROR(S) FOUND IN MAT=2919, MF= 8, MT=457
  PARTICLE ENERGY (AE) SUMUP FAILURE
  WHOLE= 6.55856E+06   SUM= 6.41200E+06   SEQUENCE NUMBER  3
  ALPHA AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 6.41200E+06   SUM= 6.56210E+06
```

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
  ERROR(S) FOUND IN MAT=2920, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN   SEQUENCE NUMBER  6
```

  2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

```plaintext
  ERROR(S) FOUND IN MAT=2920, MF= 1, MT=451
  ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE   SEQUENCE NUMBER  2
```

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
  ERROR(S) FOUND IN MAT=2921, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN   SEQUENCE NUMBER  6
```

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
  ERROR(S) FOUND IN MAT=2922, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN   SEQUENCE NUMBER  6
```
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2923, MF= 8, MT=457
   NEGATIVE SPIN NOT ALLOWED             SEQUENCE NUMBER  4
   SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL SEQUENCE NUMBER  4
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0    SEQUENCE NUMBER  4
   NO DECAY SPECTRA GIVEN                 SEQUENCE NUMBER  5

   dec-079_Au_177m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2924, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN                 SEQUENCE NUMBER  6

   dec-079_Au_178.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2925, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN                 SEQUENCE NUMBER  6

   dec-079_Au_179.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2926, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN                 SEQUENCE NUMBER  6

   dec-079_Au_180.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

529
ERROR(S) FOUND IN MAT=2927, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2928, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2929, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

• Passed All Checks!

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2931, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2932, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

530
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

```
ERROR(S) FOUND IN MAT=2933, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

**dec-079_Au_186.endf**

• **fizcon** Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=2934, MF= 8, MT=457
E( DISCRETE) > Q  E= 4.65300E+06  Q= 0.00000E+00
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 3.80245E+01  SUM= 3.72240E+01
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 3.72240E+01  SUM= 3.80428E+01
```

**dec-079_Au_187.endf**

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

```
ERROR(S) FOUND IN MAT=2935, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

**dec-079_Au_187m1.endf**

• **Passed All Checks!**

**dec-079_Au_188.endf**

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

```
ERROR(S) FOUND IN MAT=2937, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

**dec-079_Au_189.endf**

• **fizcon** Non-errors:

531
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2938, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2939, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• Passed All Checks!

• dec-079_Au_190.endf

• dec-079_Au_190m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2941, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• Passed All Checks!

• dec-079_Au_191.endf

• dec-079_Au_191m1.endf

• Passed All Checks!

• dec-079_Au_192.endf

• dec-079_Au_192m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2945, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

532
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2946, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2957, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00
NO DECAY SPECTRA GIVEN

Passed All Checks!

• Passed All Checks!

• \textbf{fizcon Errors:}

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=2959, MF= 8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 3.12272E+05 SUM= 3.11823E+05

Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• Passed All Checks!

• \textbf{fizcon Non-errors:}

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2963, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

Passed All Checks!
ERROR(S) FOUND IN MAT=2964, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

--------------------------------------------------------------------------------
dec-079_Au_202.endf

• Passed All Checks!
--------------------------------------------------------------------------------
dec-079_Au_203.endf

• Passed All Checks!
--------------------------------------------------------------------------------
dec-079_Au_204.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2967, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

--------------------------------------------------------------------------------
dec-079_Au_205.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2968, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

--------------------------------------------------------------------------------
dec-080_Hg_171.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2969, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

--------------------------------------------------------------------------------
dec-080_Hg_172.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2970, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
• **fizcon Errors:**

  1. Energies released in decay not adding up!

      ERROR(S) FOUND IN MAT=2971, MF= 8, MT=457
     GAMMA RAY NEEDED, SOURCE MODE= 4
     PARTICLE ENERGY (AE) SUMUP FAILURE
     WHOLE= 7.36954E+06 SUM= 7.20300E+06
     SEQUENCE NUMBER 8
     ALPHA AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 7.20300E+06 SUM= 7.37360E+06

• **fizcon Errors:**

  1. Energies released in decay not adding up!

      ERROR(S) FOUND IN MAT=2972, MF= 8, MT=457
     PARTICLE ENERGY (AE) SUMUP FAILURE
     WHOLE= 7.20777E+06 SUM= 7.04580E+06
     SEQUENCE NUMBER 3
     ALPHA MULTIPLICITY SUMUP FAILURE
     WHOLE= 1.00000E+00 SUM= 9.97000E-01
     ALPHA AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 7.04580E+06 SUM= 7.21170E+06

• **fizcon Errors:**

  1. Energies released in decay not adding up!

      ERROR(S) FOUND IN MAT=2973, MF= 8, MT=457
     PARTICLE ENERGY (AE) SUMUP FAILURE
     WHOLE= 6.96891E+06 SUM= 6.81318E+06
     SEQUENCE NUMBER 3
     ALPHA AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 6.81318E+06 SUM= 6.97267E+06

• **fizcon Non-errors:**

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

      ERROR(S) FOUND IN MAT=2974, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 6
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

**ERROR(S) FOUND IN MAT=2975, MF= 8, MT=457**

**NO DECAY SPECTRA GIVEN**

**SEQUENCE NUMBER 6**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

**ERROR(S) FOUND IN MAT=2976, MF= 8, MT=457**

**NO DECAY SPECTRA GIVEN**

**SEQUENCE NUMBER 6**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

**ERROR(S) FOUND IN MAT=2977, MF= 8, MT=457**

**7 IN RTYPE = 2.70000E+00 IS INVALID**

**NEAR SEQUENCE NUMBER 6**

**NO DECAY SPECTRA GIVEN**

**SEQUENCE NUMBER 7**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

**ERROR(S) FOUND IN MAT=2978, MF= 8, MT=457**

**NO DECAY SPECTRA GIVEN**

**SEQUENCE NUMBER 6**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

**fizcon** Non-errors:
ERROR(S) FOUND IN MAT=2979, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 7
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 8

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2980, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2981, MF= 8, MT=457
7 IN RTYPE = 2.70000E+00 IS INVALID NEAR SEQUENCE NUMBER 7
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2982, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2983, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2984, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   dec-080_Hg_186.endf

- **fizcon Errors:**

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=2985, MF= 8, MT=457
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 8.32568E+02  SUM= 8.15040E+02
   SEQUENCE NUMBER 3

   dec-080_Hg_187.endf

- **fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2986, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   dec-080_Hg_187m1.endf

- **fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=2987, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   dec-080_Hg_188.endf

- **fizcon Errors:**

1. Energies released in decay not adding up!

539
ERROR(S) FOUND IN MAT=2988, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
  WHOLE= 1.67231E+00  SUM= 1.63747E+00  SEQUENCE NUMBER  3
  ALPHA AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 1.63747E+00  SUM= 1.67310E+00

•  dec-080_Hg_189.endf
  Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2989, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
  SEQUENCE NUMBER  6

•  dec-080_Hg_189m1.endf
  Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
  2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress.

ERROR(S) FOUND IN MAT=2990, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
  SEQUENCE NUMBER  6

•  dec-080_Hg_190.endf
  Errors:
  1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=2991, MF= 8, MT=457
  FT VALUE TOO SMALL
  FT= 6.94047E+00  E= 1.33940E+06  I= 28  SEQUENCE NUMBER  83

•  dec-080_Hg_191.endf
  Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

540
ERROR(S) FOUND IN MAT=2992, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

dec-080_Hg_191m1.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2993, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

  2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=2993, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE  SEQUENCE NUMBER  2

dec-080_Hg_192.endf

• Passed All Checks!

dec-080_Hg_193.endf

• Passed All Checks!

dec-080_Hg_193m1.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=2996, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

dec-080_Hg_194.endf

• Passed All Checks!

dec-080_Hg_195.endf

• Passed All Checks!

dec-080_Hg_195m1.endf

• fizcon Errors:
  1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=2999, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 8.94672E+05 SUM= 7.98656E+05 SEQUENCE NUMBER 1

-----------------------------------dec-080_Hg_196.endf-----------------------------------

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3000, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

-----------------------------------dec-080_Hg_197.endf-----------------------------------

• Passed All Checks!

-----------------------------------dec-080_Hg_197m1.endf-----------------------------------

• Passed All Checks!

-----------------------------------dec-080_Hg_198.endf-----------------------------------

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3003, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

-----------------------------------dec-080_Hg_199.endf-----------------------------------

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3004, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

-----------------------------------dec-080_Hg_199m1.endf-----------------------------------
• Passed All Checks!

---
dec-080_Hg_200.endf---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3006, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

---
dec-080_Hg_201.endf---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3007, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

---
dec-080_Hg_202.endf---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3008, MF= 8, MT=457
   BRANCHING RATIO SUMUP FAILURE
   WHOLE= 1.00000E+00  SUM= 0.00000E+00  SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

---
dec-080_Hg_203.endf---

• Passed All Checks!

---
dec-080_Hg_204.endf---

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

543
ERROR(S) FOUND IN MAT=3010, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN

==================================================================================================

• Passed All Checks!

==================================================================================================

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3012, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

==================================================================================================

• Passed All Checks!

==================================================================================================

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3014, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

==================================================================================================

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3015, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

==================================================================================================

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

544
ERROR(S) FOUND IN MAT=3016, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

............................................dec-080_Hg_210.endf............................................

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3017, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

............................................dec-081_Tl_176.endf............................................

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3018, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

............................................dec-081_Tl_177.endf............................................

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3019, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

............................................dec-081_Tl_178.endf............................................

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3020, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

............................................dec-081_Tl_179.endf............................................

• fizcon Errors:
  1. Energies released in decay not adding up!

545
ERROR(S) FOUND IN MAT=3021, MF= 8, MT=457
GAMMA RAY NEEDED, SOURCE MODE= 4 SEQUENCE NUMBER 8
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 6.71375E+06 SUM= 6.56700E+06 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 6.56700E+06 SUM= 6.71721E+06

• fizcon
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3022, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=3022, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

• fizcon
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3023, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

• fizcon
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3024, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• Passed All Checks!

dec-081_Tl_182.endf

546
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3026, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER   6

   ________________dec-081_T1_183.endf____________________

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3027, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER   6

   ________________dec-081_T1_183m1.endf____________________

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3028, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER   7

   ________________dec-081_T1_184.endf____________________

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3029, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER   6

   ________________dec-081_T1_185.endf____________________

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3030, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER   5

   ________________dec-081_T1_185m1.endf____________________
fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=3031, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER  6

• dec-081_Tl_186.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=3032, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER  6

• dec-081_Tl_186m1.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=3033, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER  5

• dec-081_Tl_187.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=3034, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER  5

• dec-081_Tl_187m1.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=3035, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER  7

• dec-081_Tl_188.endf
• Passed All Checks!

---

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3037, MF= 8, MT=457

    NO DECAY SPECTRA GIVEN

    SEQUENCE NUMBER 5

---

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3038, MF= 8, MT=457

    NO DECAY SPECTRA GIVEN

    SEQUENCE NUMBER 5

---

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3039, MF= 8, MT=457

    NO DECAY SPECTRA GIVEN

    SEQUENCE NUMBER 5

---

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3040, MF= 8, MT=457

    NO DECAY SPECTRA GIVEN

    SEQUENCE NUMBER 5

---

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3041, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3042, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=3042, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
SEQUENCE NUMBER 2

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3043, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3044, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=3044, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
SEQUENCE NUMBER 2

• fizcon Non-errors:

550
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3045, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

dec-081_Tl_192m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3046, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

dec-081_Tl_193.endf

• Passed All Checks!

dec-081_Tl_193m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3048, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

dec-081_Tl_194.endf

• Passed All Checks!

dec-081_Tl_194m1.endf

• Passed All Checks!

dec-081_Tl_195.endf

• Passed All Checks!

dec-081_Tl_195m1.endf

• Passed All Checks!

dec-081_Tl_196.endf

• Passed All Checks!

dec-081_Tl_196m1.endf
• Passed All Checks!
  └─ dec-081_Tl_197.endf

• Passed All Checks!
  └─ dec-081_Tl_197m1.endf

• Passed All Checks!
  └─ dec-081_Tl_198.endf

• Passed All Checks!
  └─ dec-081_Tl_198m1.endf

• Passed All Checks!
  └─ dec-081_Tl_198m2.endf

• Passed All Checks!
  └─ dec-081_Tl_199.endf

• Passed All Checks!
  └─ dec-081_Tl_199m1.endf

• Passed All Checks!
  └─ dec-081_Tl_200.endf

• Passed All Checks!
  └─ dec-081_Tl_200m1.endf

• Passed All Checks!
  └─ dec-081_Tl_201.endf

• Passed All Checks!
  └─ dec-081_Tl_201m1.endf

• Passed All Checks!
  └─ dec-081_Tl_202.endf

• Passed All Checks!
  └─ dec-081_Tl_203.endf

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3067, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE=  1.00000E+00  SUM=  0.00000E+00  SEQUENCE NUMBER  4
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

dec-081_Tl_204.endf

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3068, MF= 8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE=  2.36924E+05  SUM=  2.34403E+05

dec-081_Tl_205.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3069, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE=  1.00000E+00  SUM=  0.00000E+00  SEQUENCE NUMBER  4
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

dec-081_Tl_206.endf

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3070, MF= 8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE=  5.38367E+05  SUM=  5.36016E+05

dec-081_Tl_206m1.endf

• Passed All Checks!

dec-081_Tl_207.endf

• Passed All Checks!

dec-081_Tl_207m1.endf

• Passed All Checks!

dec-081_Tl_208.endf

553
• Passed All Checks!

----- dec-081_Tl_209.endf -----

• Passed All Checks!

----- dec-081_Tl_210.endf -----

• Passed All Checks!

----- dec-081_Tl_211.endf -----

• \textit{fizcon} Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

\texttt{ERROR(S) FOUND IN MAT=3077, MF= 8, MT=457}
\texttt{NO DECAY SPECTRA GIVEN}
\texttt{SEQUENCE NUMBER 5}

----- dec-081_Tl_212.endf -----

• \textit{fizcon} Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

\texttt{ERROR(S) FOUND IN MAT=3078, MF= 8, MT=457}
\texttt{NO DECAY SPECTRA GIVEN}
\texttt{SEQUENCE NUMBER 5}

----- dec-082_Pb_178.endf -----

• \textit{fizcon} Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

\texttt{ERROR(S) FOUND IN MAT=3079, MF= 8, MT=457}
\texttt{NO DECAY SPECTRA GIVEN}
\texttt{SEQUENCE NUMBER 5}

----- dec-082_Pb_179.endf -----

• \textit{fizcon} Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

\texttt{ERROR(S) FOUND IN MAT=3080, MF= 8, MT=457}
\texttt{NO DECAY SPECTRA GIVEN}
\texttt{SEQUENCE NUMBER 5}

----- dec-082_Pb_180.endf -----

554
**fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3081, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5
   dec-082_Pb_181.endf

**fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3082, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5
   dec-082_Pb_181m1.endf

**fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3083, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5
   dec-082_Pb_182.endf

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

   ERROR(S) FOUND IN MAT=3083, MF=1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
   SEQUENCE NUMBER 2
   dec-082_Pb_182.endf

**fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3084, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6
   dec-082_Pb_183.endf

**fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3085, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

ERROR(S) FOUND IN MAT=3086, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

ERROR(S) FOUND IN MAT=3087, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

ERROR(S) FOUND IN MAT=3088, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

ERROR(S) FOUND IN MAT=3089, MF= 8, MT=457
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE

• fizzcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3086, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

ERROR(S) FOUND IN MAT=3087, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

ERROR(S) FOUND IN MAT=3088, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

ERROR(S) FOUND IN MAT=3089, MF= 8, MT=457
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress.
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT=3090, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER   6
   ```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT=3091, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER   6
   ```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT=3092, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER   6
   ```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT=3093, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER   6
   ```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT=3094, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER   6
   ```
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3095, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3096, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3097, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3098, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

   ERROR(S) FOUND IN MAT=3098, MF= 1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
   SEQUENCE NUMBER 2

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3098, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3099, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 6

-------------------dec-082_Pb_193.endf-------------------

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3100, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5

-------------------dec-082_Pb_193m1.endf-------------------

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3101, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

    ERROR(S) FOUND IN MAT=3101, MF= 1, MT=451
    ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
    SEQUENCE NUMBER 2

-------------------dec-082_Pb_194.endf-------------------

• fizcon Errors:

1. Beta spectrum integral too small

    ERROR(S) FOUND IN MAT=3102, MF= 8, MT=457
    FT VALUE TOO SMALL
    FT= 2.34300E+02
    E= 1.43244E+06
    I= 109
    SEQUENCE NUMBER 295

    FT VALUE TOO SMALL
    SEQUENCE NUMBER 317

...
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3103, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• Passed All Checks!

• fizcon Errors:
  1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=3105, MF= 8, MT=457
FT VALUE TOO SMALL
FT= 5.89571E+01 E= 1.37980E+06 I= 19

• Passed All Checks!

560
- Passed All Checks!
  dec-082_Pb_201m1.endf

- Passed All Checks!
  dec-082_Pb_202.endf

- Passed All Checks!
  dec-082_Pb_202m1.endf

- Passed All Checks!
  dec-082_Pb_203.endf

- Passed All Checks!
  dec-082_Pb_203m1.endf

- Passed All Checks!
  dec-082_Pb_203m2.endf

- Passed All Checks!
  dec-082_Pb_204.endf

- Passed All Checks!
  dec-082_Pb_204m1.endf

- Passed All Checks!
  dec-082_Pb_205.endf

- **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=3114, MF= 8, MT=457
     TOTAL ENERGY RELEASE SUMUP FAILURE
     WHOLE= 5.00000E+04 SUM=-1.38591E+04 SEQUENCE NUMBER 1

- **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=3119, MF= 8, MT=457
     T12 NOT IN RANGE 0.00000E+00 TO 1.00000E+24 SEQUENCE NUMBER 3
     NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

- **fizcon** Errors:

  1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=3121, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 5.05000E+04 SUM=-1.21564E+04 SEQUENCE NUMBER 1

dec-082_Pb_205m1.endf

• Passed All Checks!

dec-082_Pb_206.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=3123, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

dec-082_Pb_207.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=3124, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

dec-082_Pb_207m1.endf

• Passed All Checks!

dec-082_Pb_208.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=3126, MF= 8, MT=457
BRANCHING RATIO SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 0.00000E+00 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

dec-082_Pb_209.endf
- Passed All Checks!

- **fizcon** Errors:
  
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=3128, MF= 8, MT=457
    PARTICLE ENERGY (AE) SUMUP FAILURE
    WHOLE= 7.20263E-02 SUM= 7.06800E-02 SEQUENCE NUMBER 3
    ALPHA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 7.06800E-02 SUM= 7.20534E-02

- Passed All Checks!

- Passed All Checks!

- **fizcon** Non-errors:
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3131, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

- Passed All Checks!

- Passed All Checks!

- **fizcon** Non-errors:
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3133, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

- **fizcon** Non-errors:
  
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3134, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.
     ERROR(S) FOUND IN MAT=3135, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 5

  2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and
     let science progress
     ERROR(S) FOUND IN MAT=3135, MF= 1, MT=451
     ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
     SEQUENCE NUMBER 2

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.
     ERROR(S) FOUND IN MAT=3136, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.
     ERROR(S) FOUND IN MAT=3137, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.
     ERROR(S) FOUND IN MAT=3138, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER 5

564
2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

\[
\text{ERROR(S) FOUND IN MAT=3138, MF=1, MT=451} \\
\text{ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2}
\]

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

\[
\text{ERROR(S) FOUND IN MAT=3139, MF=8, MT=457} \\
\text{NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5}
\]

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

\[
\text{ERROR(S) FOUND IN MAT=3140, MF=8, MT=457} \\
\text{NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6}
\]

• fizcon Errors:

1. Energies released in decay not adding up!

\[
\text{ERROR(S) FOUND IN MAT=3141, MF=8, MT=457} \\
\text{GAMMA RAY NEEDED, SOURCE MODE=4 SEQUENCE NUMBER 8} \\
\text{GAMMA RAY NEEDED, SOURCE MODE=4 SEQUENCE NUMBER 10} \\
\text{TOTAL ENERGY RELEASE SUMUP FAILURE}
\]

\[
\text{dec-083_Bi_188m1.endf}
\]

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

\[
\text{ERROR(S) FOUND IN MAT=3142, MF=8, MT=457} \\
\text{NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5}
\]

565
2. We don’t know the energy of the isomer in question. FIZCON should just lighten up and let science progress.

ERROR(S) FOUND IN MAT=3142, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3143, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3144, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3145, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3146, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

2. We don’t know the energy of the isomer in question. FIZCON should just lighten up and let science progress.
ERROR(S) FOUND IN MAT=3146, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

dec-083_Bi_191.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3147, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

dec-083_Bi_191m1.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3148, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

dec-083_Bi_192.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3149, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

dec-083_Bi_192m1.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3150, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=3150, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

567
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3151, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3152, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3153, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3154, MF= 8, MT=457
   NEGATIVE SPIN NOT ALLOWED SEQUENCE NUMBER 4
   SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL SEQUENCE NUMBER 4
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

   ERROR(S) FOUND IN MAT=3154, MF= 1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

568
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3155, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

   ERROR(S) FOUND IN MAT=3155, MF= 1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3156, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=3158, MF= 8, MT=457
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 6.30980E+01  SUM= 6.18360E+01
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 6.18360E+01  SUM= 6.31252E+01
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3159, MF=8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6
```

```
___________________________dec-083_Bi_196m2.endf_____________________________
```

• **fizcon** Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=3160, MF=8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
 WHOLE= 1.98220E+01 SUM= 1.94256E+01
 SEQUENCE NUMBER 3

ALPHA AVERAGE ENERGY SUMUP FAILURE
 WHOLE= 1.94256E+01 SUM= 1.98306E+01
```

```
___________________________dec-083_Bi_197.endf_____________________________
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3161, MF=8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6
```

```
___________________________dec-083_Bi_197m1.endf_____________________________
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3162, MF=8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 7
```

```
___________________________dec-083_Bi_198.endf_____________________________
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3163, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED SEQUENCE NUMBER 4
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL SEQUENCE NUMBER 4
PARITY= 0.000000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3164, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=3164, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3165, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3166, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3167, MF=8, MT=457
NO DECAY SPECTRA GIVEN

<table>
<thead>
<tr>
<th>SEQUENCE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
</tr>
</tbody>
</table>

--dec-083_Bi_200.endf--

- Passed All Checks!

--dec-083_Bi_200m1.endf--

- fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=3169, MF=8, MT=457
     NO DECAY SPECTRA GIVEN

     | SEQUENCE NUMBER |
     |-----------------|
     | 5               |

  2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

     ERROR(S) FOUND IN MAT=3169, MF=1, MT=451
     ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE

     | SEQUENCE NUMBER |
     |-----------------|
     | 2               |

--dec-083_Bi_200m2.endf--

- fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=3170, MF=8, MT=457
     NO DECAY SPECTRA GIVEN

     | SEQUENCE NUMBER |
     |-----------------|
     | 5               |

--dec-083_Bi_201.endf--

- Passed All Checks!

--dec-083_Bi_201m1.endf--

- fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=3172, MF=8, MT=457
     NO DECAY SPECTRA GIVEN

     | SEQUENCE NUMBER |
     |-----------------|
     | 7               |

--dec-083_Bi_202.endf--

572
• Passed All Checks!

dec-083_Bi_203.endf

• Passed All Checks!

dec-083_Bi_203m1.endf

• Passed All Checks!

dec-083_Bi_204.endf

• Passed All Checks!

dec-083_Bi_204m1.endf

• Passed All Checks!

dec-083_Bi_204m2.endf

• fizcon Non-errors:

  1. This is an isomer with a very high spin, much too much for FIZCON

      ERROR(S) FOUND IN MAT=3178, MF= 8, MT=457
      SPI NOT IN RANGE  0.00000E+00 TO  1.60000E+01  SEQUENCE NUMBER  5

      dec-083_Bi_205.endf

• Passed All Checks!

dec-083_Bi_206.endf

• Passed All Checks!

dec-083_Bi_207.endf

• Passed All Checks!

dec-083_Bi_208.endf

• Passed All Checks!

dec-083_Bi_208m1.endf

• Passed All Checks!

dec-083_Bi_209.endf

• fizcon Non-errors:

  1. The halflife given in the file really is correct, dispite what FIZCON says
ERROR(S) FOUND IN MAT=3184, MF= 8, MT=457
   T12 NOT IN RANGE  0.00000E+00 TO  1.00000E+24  SEQUENCE NUMBER  3
   GAMMA RAY NEEDED, SOURCE MODE=  4  SEQUENCE NUMBER  8
   GAMMA RAY NEEDED, SOURCE MODE=  4  SEQUENCE NUMBER 10

• fistcon Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=3185, MF= 8, MT=457
     BETA AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 3.89220E+05  SUM= 3.87992E+05

• fistcon Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=3186, MF= 8, MT=457
     PARTICLE ENERGY (AE) SUMUP FAILURE
     WHOLE= 5.00486E+06  SUM= 4.91131E+06  SEQUENCE NUMBER  3
     ALPHA MULTIPLICITY SUMUP FAILURE
     WHOLE= 1.00000E+00  SUM= 1.00019E+00
     ALPHA AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 4.91131E+06  SUM= 5.00675E+06

• fistcon Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=3187, MF= 8, MT=457
     PARTICLE ENERGY (AE) SUMUP FAILURE
     WHOLE= 6.67298E+06  SUM= 6.54883E+06  SEQUENCE NUMBER  3
     ALPHA AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 6.54883E+06  SUM= 6.67547E+06

• fistcon Errors:

  1. Energies released in decay not adding up!

574
ERROR(S) FOUND IN MAT=3188, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
  WHOLE= 2.21638E+06 SUM= 2.17534E+06  SEQUENCE NUMBER  3
BETA AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 4.93917E+05 SUM= 4.91412E+05
ALPHA AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 2.17534E+06 SUM= 2.21720E+06

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3189, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED  SEQUENCE NUMBER  4
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL  SEQUENCE NUMBER  4
PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER  4
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  7

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3190, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3191, MF= 8, MT=457
ALPHA MULTIPLICITY SUMUP FAILURE
  WHOLE= 2.20000E-02 SUM= 2.09000E-02

• Passed All Checks!

• Passed All Checks!

575
• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ```
     ERROR(S) FOUND IN MAT=3194, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     ```

  2. **fizcon** Non-errors:

     1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ```
     ERROR(S) FOUND IN MAT=3195, MF= 8, MT=457
     NEGATIVE SPIN NOT ALLOWED
     SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
     PARITY= 0.000000E+00 NOT +1.0 OR -1.0
     NO DECAY SPECTRA GIVEN
     ```

  3. **fizcon** Non-errors:

     1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ```
     ERROR(S) FOUND IN MAT=3196, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     ```

  4. **fizcon** Non-errors:

     1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ```
     ERROR(S) FOUND IN MAT=3198, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     ```

• Passed All Checks!

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

  2. Passed All Checks!
Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=3200, MF= 8, MT=457
  GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER  8
  GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER 10
PARTICLE ENERGY (AE) SUMUP FAILURE
  WHOLE= 7.67602E+06  SUM= 7.51775E+06  SEQUENCE NUMBER  3
ALPHA AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 7.51775E+06  SUM= 7.67954E+06
```

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3201, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5
```

Errors:

1. At least one gamma ray needed for given source mode

```
ERROR(S) FOUND IN MAT=3202, MF= 8, MT=457
  GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER  8
  GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER 10
  GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER 12
  GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER 14
  GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER 16
```

Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=3203, MF= 8, MT=457
  GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER  8
  GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER 10
PARTICLE ENERGY (AE) SUMUP FAILURE
  WHOLE= 7.26385E+06  SUM= 7.11560E+06  SEQUENCE NUMBER  3
ALPHA AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 7.11560E+06  SUM= 7.26711E+06
```
• Passed All Checks!

• fizzcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=3205, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and
let science progress

```plaintext
ERROR(S) FOUND IN MAT=3205, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2
```

• fizzcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=3206, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
```

• fizzcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=3207, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6
```

• fizzcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=3208, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6
```
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3209, MF=8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3210, MF=8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3211, MF=8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  7

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3212, MF=8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3213, MF=8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3214, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 7

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3215, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Passed All Checks!

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3217, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 7

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3218, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Passed All Checks!

Passed All Checks!
• **fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=3221, MF= 8, MT=457  
   PARTICLE ENERGY (AE) SUMUP FAILURE  
   WHOLE= 3.61847E+04  SUM= 3.54889E+04  SEQUENCE NUMBER 3  
   ALPHA AVERAGE ENERGY SUMUP FAILURE  
   WHOLE= 3.54889E+04  SUM= 3.61992E+04

• **fizcon** Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=3222, MF= 8, MT=457  
   PARTICLE ENERGY (AE) SUMUP FAILURE  
   WHOLE= 2.12874E+03  SUM= 2.08800E+03  SEQUENCE NUMBER 3  
   ALPHA AVERAGE ENERGY SUMUP FAILURE  
   WHOLE= 2.08800E+03  SUM= 2.12958E+03

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3223, MF= 8, MT=457  
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3224, MF= 8, MT=457  
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

• **fizcon** Errors:

1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=3225, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 2.90220E+05 SUM= 2.84692E+05 SEQUENCE NUMBER 3
E.C. MULTIPLICITY SUMUP FAILURE
WHOLE= 9.45500E-01 SUM= 9.07869E-01
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.84692E+05 SUM= 2.90333E+05

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3226, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 1.09499E+03 SUM= 1.07423E+03 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.07423E+03 SUM= 1.09542E+03

Passed All Checks!

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3228, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 5.21305E+06 SUM= 5.11469E+06 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 5.11469E+06 SUM= 5.40745E+06

Passed All Checks!

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3230, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 5.40541E+06 SUM= 5.30438E+06 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 5.30438E+06 SUM= 5.40745E+06

582
dec-084_Po_211.endf

• fizon Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=3231, MF= 8, MT=457
    PARTICLE ENERGY (AE) SUMUP FAILURE
    WHOLE= 7.58358E+06 SUM= 7.44249E+06  SEQUENCE NUMBER 3
    ALPHA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 7.44249E+06 SUM= 7.58641E+06

dec-084_Po_211m1.endf

• fizon Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=3232, MF= 8, MT=457
    PARTICLE ENERGY (AE) SUMUP FAILURE
    WHOLE= 7.54186E+06 SUM= 7.40155E+06  SEQUENCE NUMBER 3
    ALPHA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 7.40155E+06 SUM= 7.54467E+06

dec-084_Po_212.endf

• fizon Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=3233, MF= 8, MT=457
    GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER 8
    PARTICLE ENERGY (AE) SUMUP FAILURE
    WHOLE= 8.95061E+06 SUM= 8.78486E+06  SEQUENCE NUMBER 3
    ALPHA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 8.78486E+06 SUM= 8.95392E+06

dec-084_Po_212m1.endf

• fizon Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=3234, MF= 8, MT=457
    SPI NOT IN RANGE  0.00000E+00 TO  1.60000E+01  SEQUENCE NUMBER 6
    PARTICLE ENERGY (AE) SUMUP FAILURE
    WHOLE= 1.17743E+07 SUM= 1.15562E+07  SEQUENCE NUMBER 3
    ALPHA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 1.15562E+07 SUM= 1.17786E+07

583
• **fizcon Errors:**

  1. Energies released in decay not adding up!

     ```
     ERROR(S) FOUND IN MAT=3235, MF= 8, MT=457
     PARTICLE ENERGY (AE) SUMUP FAILURE
     WHOLE= 8.53357E+06 SUM= 8.37627E+06  SEQUENCE NUMBER  3
     ALPHA AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 8.37627E+06 SUM= 8.53669E+06
     ```

• **fizcon Errors:**

  1. Energies released in decay not adding up!

     ```
     ERROR(S) FOUND IN MAT=3236, MF= 8, MT=457
     PARTICLE ENERGY (AE) SUMUP FAILURE
     WHOLE= 7.83041E+06 SUM= 7.68674E+06  SEQUENCE NUMBER  3
     ALPHA AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 7.68674E+06 SUM= 7.83325E+06
     ```

• **fizcon Errors:**

  1. Energies released in decay not adding up!

     ```
     ERROR(S) FOUND IN MAT=3237, MF= 8, MT=457
     PARTICLE ENERGY (AE) SUMUP FAILURE
     WHOLE= 7.52523E+06 SUM= 7.38779E+06  SEQUENCE NUMBER  3
     ALPHA AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 7.38779E+06 SUM= 7.52793E+06
     ```

• **fizcon Errors:**

  1. Energies released in decay not adding up!

     ```
     ERROR(S) FOUND IN MAT=3238, MF= 8, MT=457
     PARTICLE ENERGY (AE) SUMUP FAILURE
     WHOLE= 6.90381E+06 SUM= 6.77829E+06  SEQUENCE NUMBER  3
     ALPHA AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 6.77829E+06 SUM= 6.90626E+06
     ```

584
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3239, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

```
dec-084_Po_218.endf
```

• **fizcon** Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=3240, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 6.11125E+06 SUM= 6.00114E+06
SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 6.00114E+06 SUM= 6.11338E+06
```

```
dec-084_Po_219.endf
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3241, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

```
dec-084_Po_220.endf
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3242, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

```
dec-085_At_193.endf
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3243, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

```
dec-085_At_193.endf
```

585
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=3244, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=3245, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 7

2. We don't know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=3245, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
SEQUENCE NUMBER 2

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=3246, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=3247, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

2. We don't know the energy of the isomer in question, FIZCON should just lighten up and let science progress
ERROR(S) FOUND IN MAT=3247, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3248, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3249, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3250, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3251, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

587
ERROR(S) FOUND IN MAT=3252, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Error message for dec-085_At_198m1.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3253, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Error message for dec-085_At_199.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3254, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Error message for dec-085_At_200.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3255, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Error message for dec-085_At_200m1.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3256, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Error message for dec-085_At_200m2.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3257, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3258, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3259, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
PARITY= 0.00000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3260, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=3260, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3261, MF=8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

• **fizcon Non-errors:**
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3262, MF=8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

• **fizcon Errors:**
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3263, MF=8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE=2.37219E+05 SUM=2.32657E+05
SEQUENCE NUMBER 3

ERROR(S) FOUND IN MAT=3265, MF=8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE=4.68525E+06 SUM=4.05912E+06
SEQUENCE NUMBER 1

• **fizcon Errors:**
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3261, MF=8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

• **fizcon Non-errors:**
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3262, MF=8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

• **fizcon Errors:**
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3263, MF=8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE=2.37219E+05 SUM=2.32657E+05
SEQUENCE NUMBER 3

ERROR(S) FOUND IN MAT=3265, MF=8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE=4.68525E+06 SUM=4.05912E+06
SEQUENCE NUMBER 1

• **fizcon Errors:**
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3261, MF=8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

• **fizcon Non-errors:**
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3267, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 5.04757E+05  SUM= 4.95188E+05  SEQUENCE NUMBER 3
E.C. MULTIPLICITY SUMUP FAILURE
WHOLE= 9.14000E-01  SUM= 7.70900E-01
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 4.95188E+05  SUM= 5.04953E+05

• cunt Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3268, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 5.00513E+06  SUM= 4.60354E+06  SEQUENCE NUMBER 1
E.C. MULTIPLICITY SUMUP FAILURE
WHOLE= 9.94500E-01  SUM= 8.00322E-01

• cunt Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3269, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 2.35722E+05  SUM= 2.31296E+05  SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.31296E+05  SUM= 2.35812E+05

• Passed All Checks!

• cunt Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3271, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 2.50024E+06  SUM= 2.45373E+06  SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 2.45373E+06  SUM= 2.50118E+06
• **fizcon** Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=3272, MF= 8, MT=457
  GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER  8
  GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER 10
  GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER 12
...
```

• **fizcon** Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=3273, MF= 8, MT=457
  PARTICLE ENERGY (AE) SUMUP FAILURE
    WHOLE= 7.98225E+06  SUM= 7.83443E+06  SEQUENCE NUMBER  3
  ALPHA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 7.83443E+06  SUM= 7.98520E+06
```

• **fizcon** Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=3274, MF= 8, MT=457
  PARTICLE ENERGY (AE) SUMUP FAILURE
    WHOLE= 9.25052E+06  SUM= 9.08000E+06  SEQUENCE NUMBER  3
  ALPHA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 9.08000E+06  SUM= 9.25390E+06
```

• **fizcon** Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=3275, MF= 8, MT=457
  GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER  8
  GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER 10
  GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER 12
...
```
Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3276, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 8.17511E+06 SUM= 8.02579E+06 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 8.02579E+06 SUM= 8.17804E+06

Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3277, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 7.95981E+06 SUM= 7.81508E+06 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 7.81508E+06 SUM= 7.96263E+06

Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3278, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 7.19373E+06 SUM= 7.06347E+06 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 7.06347E+06 SUM= 7.19620E+06

Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3279, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 6.80869E+06 SUM= 6.68602E+06 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 6.68602E+06 SUM= 6.81106E+06
• **fizcon** Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=3280, MF= 8, MT=457
  GAMMA RAY NEEDED, SOURCE MODE= 4
  PARTICLE ENERGY (AE) SUMUP FAILURE
  WHOLE= 6.13175E+06 SUM= 6.02176E+06
  ALPHA AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 6.02176E+06 SUM= 6.13386E+06
```

• **fizcon** Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=3281, MF= 8, MT=457
  PARITY= 0.00000E+00 NOT +1.0 OR -1.0
  PARTICLE ENERGY (AE) SUMUP FAILURE
  WHOLE= 4.84084E+05 SUM= 4.75440E+05
  ALPHA AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 4.75440E+05 SUM= 4.84250E+05
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3282, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3283, MF= 8, MT=457
  NO DECAY SPECTRA GIVEN
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3284, MF=8, MT=457
NO DECAY SPECTRA GIVEN

sequence number 5

dec-086_Rn_195.endf

- fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3285, MF=8, MT=457
NO DECAY SPECTRA GIVEN

sequence number 5

dec-086_Rn_195m1.endf

- fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3286, MF=8, MT=457
NO DECAY SPECTRA GIVEN

sequence number 5

dec-086_Rn_196.endf

- fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3287, MF=8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE=7.60211E+06 SUM=7.45007E+06
   SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE=7.45007E+06 SUM=7.60538E+06

dec-086_Rn_197.endf

- fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3288, MF=8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE=7.40741E+06 SUM=7.26000E+06
   SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE=7.26000E+06 SUM=7.41056E+06
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```plaintext
   ERROR(S) FOUND IN MAT=3289, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5
   ```

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress.

   ```plaintext
   ERROR(S) FOUND IN MAT=3289, MF= 1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
   SEQUENCE NUMBER 2
   ```

• **fizcon** Errors:

1. Energies released in decay not adding up!

   ```plaintext
   ERROR(S) FOUND IN MAT=3290, MF= 8, MT=457
   GAMMA RAY NEEDED, SOURCE MODE= 4
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 7.30623E+06 SUM= 7.16155E+06
   SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 7.16155E+06 SUM= 7.30931E+06
   SEQUENCE NUMBER 3
   ```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```plaintext
   ERROR(S) FOUND IN MAT=3291, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6
   ```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```plaintext
   ERROR(S) FOUND IN MAT=3292, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6
   ```

596
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=3293, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=3294, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=3295, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

2. We don't know the energy of the isomer in question. FIZCON should just lighten up and let science progress

   ERROR(S) FOUND IN MAT=3295, MF= 1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
   SEQUENCE NUMBER 2

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=3296, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

Non-errors:

597
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3297, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

dec-086_Rn_203m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3298, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

dec-086_Rn_204.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3299, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

dec-086_Rn_205.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3300, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

dec-086_Rn_206.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3301, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

dec-086_Rn_207.endf

• fizcon Errors:

598
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3302, MF= 8, MT=457
E.C. MULTIPLICITY SUMUP FAILURE
WHOLE= 7.90000E-01 SUM= 6.83348E-01

dec-086_Rn_208.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3303, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

dec-086_Rn_209.endf

• Passed All Checks!

dec-086_Rn_210.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3305, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 5.90979E+06 SUM= 5.79932E+06 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 5.79932E+06 SUM= 5.91201E+06

dec-086_Rn_211.endf

• Passed All Checks!

dec-086_Rn_212.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3307, MF= 8, MT=457
GAMMA RAY NEEDED, SOURCE MODE= 4 SEQUENCE NUMBER 8
GAMMA RAY NEEDED, SOURCE MODE= 4 SEQUENCE NUMBER 10
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 6.38184E+06 SUM= 6.26366E+06 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 6.26366E+06 SUM= 6.38420E+06

599
Errors:

1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=3308, MF= 8, MT=457
    GAMMA RAY NEEDED, SOURCE MODE= 4         SEQUENCE NUMBER  8
    GAMMA RAY NEEDED, SOURCE MODE= 4         SEQUENCE NUMBER  10
    PARTICLE ENERGY (AE) SUMUP FAILURE
        WHOLE= 8.23444E+06   SUM= 8.08265E+06
    ALPHA AVERAGE ENERGY SUMUP FAILURE
        WHOLE= 8.08265E+06   SUM= 8.23745E+06

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3309, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN                   SEQUENCE NUMBER  5

Errors:

1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=3310, MF= 8, MT=457
    GAMMA RAY NEEDED, SOURCE MODE= 4         SEQUENCE NUMBER  8
    PARTICLE ENERGY (AE) SUMUP FAILURE
        WHOLE= 8.83538E+06   SUM= 8.67400E+06
    ALPHA AVERAGE ENERGY SUMUP FAILURE
        WHOLE= 8.67400E+06   SUM= 8.83855E+06

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3311, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN                   SEQUENCE NUMBER  5
• **fizcon** Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=3312, MF= 8, MT=457
   GAMMA RAY NEEDED, SOURCE MODE= 4 SEQUENCE NUMBER 8
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 7.88369E+06 SUM= 7.74100E+06
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 7.74100E+06 SUM= 7.88646E+06
```

---

dec-086_Rn_218.endf

---

• **fizcon** Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=3313, MF= 8, MT=457
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 7.25902E+06 SUM= 7.12823E+06 SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 7.12823E+06 SUM= 7.26155E+06
```

---

dec-086_Rn_219.endf

---

• **fizcon** Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=3314, MF= 8, MT=457
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 6.87800E+06 SUM= 6.75462E+06 SEQUENCE NUMBER 3
```

---

dec-086_Rn_220.endf

---

• **fizcon** Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=3315, MF= 8, MT=457
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 6.40178E+06 SUM= 6.28746E+06 SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 6.28746E+06 SUM= 6.40397E+06
```

---

dec-086_Rn_221.endf

---

• Passed All Checks!
Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3317, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 5.58790E+06 SUM= 5.48900E+06
SEQUENCE NUMBER 3

ERROR(S) FOUND IN MAT=3319, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3321, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=3323, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=3324, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=3325, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

Errors:

1. Energies released in decay not adding up!

```plaintext
ERROR(S) FOUND IN MAT=3326, MF= 8, MT=457
GAMMA RAY NEEDED, SOURCE MODE= 4
PARTICLE ENERGY (AE) SUMUP FAILURE
  WHOLE= 7.50749E+06  SUM= 7.36100E+06
  SEQUENCE NUMBER 8
ALPHA AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 7.36100E+06  SUM= 7.51056E+06
  SEQUENCE NUMBER 3
```

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.
ERROR(S) FOUND IN MAT=3327, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

-------------------------------------dec-087_Fr_202m1.endf-------------------------------------

• fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3328, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=3328, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

-------------------------------------dec-087_Fr_203.endf-------------------------------------

• fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3329, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

-------------------------------------dec-087_Fr_204.endf-------------------------------------

• fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3330, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

-------------------------------------dec-087_Fr_204m1.endf-------------------------------------

• fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3331, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

604
• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3332, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN

    SEQUENCE NUMBER 6

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3333, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN

    SEQUENCE NUMBER 5

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3334, MF= 8, MT=457
    NEGATIVE SPIN NOT ALLOWED
    SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
    PARITY= 0.00000E+00 NOT +1.0 OR -1.0
    NO DECAY SPECTRA GIVEN

    SEQUENCE NUMBER 4

    SEQUENCE NUMBER 4

    SEQUENCE NUMBER 6

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3335, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN

    SEQUENCE NUMBER 6

  2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

    ERROR(S) FOUND IN MAT=3335, MF= 1, MT=451
    ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE

    SEQUENCE NUMBER 2

605
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3336, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3337, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3339, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

ERROR(S) FOUND IN MAT=3338, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 6.02415E+06 SUM= 5.91049E+06
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 5.91049E+06 SUM= 6.02646E+06

ERROR(S) FOUND IN MAT=3340, MF= 8, MT=457  
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=3341, MF= 8, MT=457  
NO DECAY SPECTRA GIVEN

• Passed All Checks!

ERROR(S) FOUND IN MAT=3343, MF= 8, MT=457  
NO DECAY SPECTRA GIVEN

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3344, MF= 8, MT=457  
GAMMA RAY NEEDED, SOURCE MODE= 4
GAMMA RAY NEEDED, SOURCE MODE= 4
GAMMA RAY NEEDED, SOURCE MODE= 4
...

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3345, MF= 8, MT=457  
GAMMA RAY NEEDED, SOURCE MODE= 4
GAMMA RAY NEEDED, SOURCE MODE= 4
GAMMA RAY NEEDED, SOURCE MODE= 4
...
• **fizcon Errors:**

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=3346, MF=8, MT=457
   GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER 8
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 9.53414E+06  SUM= 9.36000E+06  SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 9.36000E+06  SUM= 9.53756E+06

• **fizcon Errors:**

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=3347, MF=8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 9.17400E+06  SUM= 8.77960E+06  SEQUENCE NUMBER 1
   PARTICLE ENERGY (AE) SUMUP FAILURE
   ...

• **fizcon Errors:**

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=3348, MF=8, MT=457
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 8.46827E+06  SUM= 8.31500E+06  SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 8.31500E+06  SUM= 8.47125E+06

• Passed All Checks!

• **fizcon Errors:**

1. At least one gamma ray needed for given source mode
ERROR(S) FOUND IN MAT=3350, MF= 8, MT=457
GAMMA RAY NEEDED, SOURCE MODE= 4 SEQUENCE NUMBER 8
GAMMA RAY NEEDED, SOURCE MODE= 4 SEQUENCE NUMBER 10
GAMMA RAY NEEDED, SOURCE MODE= 4 SEQUENCE NUMBER 12

fizcon Errors:
1. Energies released in decay not adding up!

fizcon Errors:
1. Energies released in decay not adding up!

fizcon Errors:
1. Energies released in decay not adding up!

fizcon Errors:
1. Energies released in decay not adding up!

Passed All Checks!
1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=3355, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 3.33598E+02 SUM= 3.27720E+02                                      SEQUENCE NUMBER  3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 3.27720E+02 SUM= 3.33709E+02
```

- Passed All Checks!

```
--- dec-087_Fr_224.endf ---
```

- `fizcon` Non-Errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3357, MF= 8, MT=457
NO DECAY SPECTRA GIVEN                                      SEQUENCE NUMBER  5
```

- Passed All Checks!

```
--- dec-087_Fr_225.endf ---
```

- Passed All Checks!

```
--- dec-087_Fr_226.endf ---
```

- Passed All Checks!

```
--- dec-087_Fr_227.endf ---
```

- Passed All Checks!

```
--- dec-087_Fr_228.endf ---
```

- `fizcon` Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=3361, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 3.26000E+06 SUM= 3.00553E+06                                      SEQUENCE NUMBER  1
   BETA MULTIPLICITY SUMUP FAILURE
   WHOLE= 1.00000E+00 SUM= 9.23800E-01
```

- Passed All Checks!

```
--- dec-087_Fr_230.endf ---
```

```
--- dec-087_Fr_231.endf ---
```
• Passed All Checks!

• Passed All Checks!

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3365, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=3366, MF= 8, MT=457
    PARTICLE ENERGY (AE) SUMUP FAILURE
    WHOLE= 7.73854E+06 SUM= 7.58900E+06 SEQUENCE NUMBER 3
    ALPHA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 7.58900E+06 SUM= 7.74164E+06

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3367, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

  2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

    ERROR(S) FOUND IN MAT=3367, MF= 1, MT=451
    ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
• **fizcon** Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=3369, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

```plaintext
ERROR(S) FOUND IN MAT=3370, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
SEQUENCE NUMBER 2
```

• **fizcon** Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=3371, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

• **fizcon** Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3372, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
PARITY= 0.00000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 4

sequence number 4

ERROR(S) FOUND IN MAT=3373, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 7

sequence number 7

ERROR(S) FOUND IN MAT=3374, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 6

sequence number 6

ERROR(S) FOUND IN MAT=3375, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 6

sequence number 6

ERROR(S) FOUND IN MAT=3376, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 6

sequence number 6

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=3373, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 6

sequence number 6

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=3374, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 6

sequence number 6

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=3375, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 6

sequence number 6

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=3376, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

SEQUENCE NUMBER 6

sequence number 6

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3377, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

---

dec-088_Ra_212.endf

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3378, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

---

dec-088_Ra_213.endf

**fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3379, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

---

dec-088_Ra_213m1.endf

**fizcon** Non-errors:

1. Passed All Checks!

---

dec-088_Ra_214.endf

**fizcon** Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3381, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 7.26483E+06 SUM= 7.13153E+06
SEQUENCE NUMBER 3

ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 7.13153E+06 SUM= 7.26745E+06

---

dec-088_Ra_215.endf

**fizcon** Errors:

1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=3382, MF= 8, MT=457
GAMMA RAY NEEDED, SOURCE MODE= 4 SEQUENCE NUMBER 8
GAMMA RAY NEEDED, SOURCE MODE= 4 SEQUENCE NUMBER 10
PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 8.83153E+06 SUM= 8.67022E+06 SEQUENCE NUMBER 3

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3383, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3384, MF= 8, MT=457
GAMMA RAY NEEDED, SOURCE MODE= 4 SEQUENCE NUMBER 8
PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 9.15775E+06 SUM= 8.99200E+06 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 8.99200E+06 SUM= 9.16097E+06

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3385, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

Passed All Checks!

615
ERROR(S) FOUND IN MAT=3387, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 7.58391E+06 SUM= 7.44848E+06 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 7.44848E+06 SUM= 7.58650E+06

Passed All Checks!

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3389, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 6.66470E+06 SUM= 6.54674E+06 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 6.54674E+06 SUM= 6.66694E+06

fizcon Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3390, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 5.76689E+06 SUM= 5.66527E+06 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 5.66527E+06 SUM= 5.77637E+06

Passed All Checks!

• **fizcon** Errors:

  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=3393, MF= 8, MT=457
    PARTICLE ENERGY (AE) SUMUP FAILURE
    WHOLE= 4.85900E+06 SUM= 4.77450E+06 SEQUENCE NUMBER 3
    ALPHA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 4.77450E+06 SUM= 4.86057E+06

    ________________dec-088_Ra_227.endf_____________________

• Passed All Checks!

   ________________dec-088_Ra_228.endf_____________________

• **fizcon** Non-errors:

  1. FIZCON apparently has a bug in its calculation of \( \log(FT) \) values that causes it to have trouble with nearly stable nuclei

    ERROR(S) FOUND IN MAT=3395, MF= 8, MT=457
    ERROR CALCULATING BETA SPECTRUM INTEGRAL
    FT VALUE TOO SMALL
    FT= 0.000000E+00 E= 1.27300E+04 I= 9 SEQUENCE NUMBER 31
    TOTAL ENERGY RELEASE SUMUP FAILURE
    WHOLE= 4.580000E+04 SUM= 3.201420E+04 SEQUENCE NUMBER 1

    ________________dec-088_Ra_229.endf_____________________

• Passed All Checks!

   ________________dec-088_Ra_230.endf_____________________

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3397, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN

    ________________dec-088_Ra_231.endf_____________________

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3398, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

sequence number 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3399, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

sequence number 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3400, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

sequence number 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3401, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

sequence number 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3402, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

sequence number 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

618
2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=3403, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE

dec-089_Ac_207.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3404, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 7.84166E+06 SUM= 7.69300E+06
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 7.69300E+06 SUM= 7.84468E+06

dec-089_Ac_208.endf

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3405, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 7.64044E+06 SUM= 7.49628E+06
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 7.49628E+06 SUM= 7.64336E+06

dec-089_Ac_208m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3406, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

dec-089_Ac_209.endf

• fizcon Errors:
1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=3407, MF= 8, MT=457
   GAMMA RAY NEEDED, SOURCE MODE= 4
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 7.72201E+06 SUM= 7.57700E+06
   SEQUENCE NUMBER 8
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 7.57700E+06 SUM= 7.72493E+06

   _____________________________________________________________
   • fizcon Non-errors:
     1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
        this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3408, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

   _____________________________________________________________
   • fizcon Errors:
     1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=3409, MF= 8, MT=457
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 7.61874E+06 SUM= 7.47700E+06
   SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 7.47700E+06 SUM= 7.62157E+06

   _____________________________________________________________
   • fizcon Non-errors:
     1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
        this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3410, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

   _____________________________________________________________
   • fizcon Errors:
     1. Energies released in decay not adding up!

   620
ERROR(S) FOUND IN MAT=3411, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 7.50229E+06  SUM= 7.36400E+06  SEQUENCE NUMBER  3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
      WHOLE= 7.36400E+06  SUM= 7.50503E+06

• fizcon Non-errors:
   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

ERROR(S) FOUND IN MAT=3412, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

• fizcon Errors:
   1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3413, MF= 8, MT=457
   GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER 13
   GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER 15
   GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER 17
   ...

• fizcon Errors:
   1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3414, MF= 8, MT=457
   GAMMA RAY NEEDED, SOURCE MODE= 4  SEQUENCE NUMBER 8
   PARTICLE ENERGY (AE) SUMUP FAILURE
      WHOLE= 9.22452E+06  SUM= 9.05680E+06  SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
      WHOLE= 9.05680E+06  SUM= 9.22779E+06

• fizcon Errors:
   1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=3415, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 9.28200E+06 SUM= 9.21945E+06 SEQUENCE NUMBER 1
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 9.20024E+06 SUM= 9.03297E+06 SEQUENCE NUMBER 3
ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 9.03297E+06 SUM= 9.20351E+06

• fizcon Errors:
  1. Energies released in decay not adding up!
    ERROR(S) FOUND IN MAT=3416, MF= 8, MT=457
    GAMMA RAY NEEDED, SOURCE MODE= 4 SEQUENCE NUMBER 8
    PARTICLE ENERGY (AE) SUMUP FAILURE
    WHOLE= 9.82788E+06 SUM= 9.65000E+06 SEQUENCE NUMBER 3
    ALPHA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 9.65000E+06 SUM= 9.83133E+06

• fizcon Errors:
  1. Energies released in decay not adding up!
    ERROR(S) FOUND IN MAT=3417, MF= 8, MT=457
    GAMMA RAY NEEDED, SOURCE MODE= 4 SEQUENCE NUMBER 8
    PARTICLE ENERGY (AE) SUMUP FAILURE
    WHOLE= 9.37390E+06 SUM= 9.20500E+06 SEQUENCE NUMBER 3
    ALPHA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 9.20500E+06 SUM= 9.37716E+06

• fizcon Errors:
  1. Energies released in decay not adding up!
    ERROR(S) FOUND IN MAT=3418, MF= 8, MT=457
    GAMMA RAY NEEDED, SOURCE MODE= 4 SEQUENCE NUMBER 8
    PARTICLE ENERGY (AE) SUMUP FAILURE
    WHOLE= 8.82225E+06 SUM= 8.66400E+06 SEQUENCE NUMBER 3
    ALPHA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 8.66400E+06 SUM= 8.82529E+06
fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=3419, MF= 8, MT=457
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 8.34800E+06 SUM= 8.19762E+06 SEQUENCE NUMBER 1
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 7.95223E+06 SUM= 7.81023E+06 SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 7.81023E+06 SUM= 7.95495E+06

   dec-089_Ac_221.endf

fizcon Errors:

1. At least one gamma ray needed for given source mode

   ERROR(S) FOUND IN MAT=3420, MF= 8, MT=457
   GAMMA RAY NEEDED, SOURCE MODE= 4 SEQUENCE NUMBER 8
   GAMMA RAY NEEDED, SOURCE MODE= 4 SEQUENCE NUMBER 10
   GAMMA RAY NEEDED, SOURCE MODE= 4 SEQUENCE NUMBER 12

   dec-089_Ac_222.endf

fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=3421, MF= 8, MT=457
   GAMMA RAY NEEDED, SOURCE MODE= 4 SEQUENCE NUMBER 13
   GAMMA RAY NEEDED, SOURCE MODE= 4 SEQUENCE NUMBER 15
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 7.06078E+06 SUM= 6.93581E+06 SEQUENCE NUMBER 3

   dec-089_Ac_222m1.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
   this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3422, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and
   let science progress.
ERROR(S) FOUND IN MAT=3422, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

--dec-089_Ac_223.endf--

• Passed All Checks!

--dec-089_Ac_224.endf--

• Passed All Checks!

--dec-089_Ac_225.endf--

• Passed All Checks!

--dec-089_Ac_226.endf--

• fizcon Errors:
  1. Energies released in decay not adding up!

--dec-089_Ac_227.endf--

--dec-089_Ac_228.endf--

• fizcon Non-errors:
  1. FIZCON apparently has a bug in its calculation of log(FT) values that causes it to have trouble with nearly stable nuclei

--dec-089_Ac_229.endf--

--dec-089_Ac_230.endf--
Passed All Checks!

Passed All Checks!

Passed All Checks!

Passed All Checks!

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3434, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3435, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3436, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3437, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

625
Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=3438, MF= 8, MT=457
   GAMMA RAY NEEDED, SOURCE MODE= 4
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 8.04946E+06 SUM= 7.89900E+06
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 7.89900E+06 SUM= 8.05247E+06

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3439, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=3441, MF= 8, MT=457
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 7.83645E+06 SUM= 7.69200E+06
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 7.69200E+06 SUM= 7.83930E+06

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3440, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=3441, MF= 8, MT=457
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 7.83645E+06 SUM= 7.69200E+06
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 7.69200E+06 SUM= 7.83930E+06

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3440, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

626
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3442, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

---

• Passed All Checks!

---

• fizon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3444, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 8.06529E+06 SUM= 7.91865E+06
SEQUENCE NUMBER 3

ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 7.91865E+06 SUM= 8.06815E+06

---

• fizon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3445, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 9.39363E+06 SUM= 9.22361E+06
SEQUENCE NUMBER 3

ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 9.22361E+06 SUM= 9.39693E+06

---

• fizon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3446, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 9.84336E+06 SUM= 9.66600E+06
SEQUENCE NUMBER 3
• *fizcon* Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=3447, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
  WHOLE= 9.51059E+06  SUM= 9.34000E+06  SEQUENCE NUMBER  3
  ALPHA AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 9.34000E+06  SUM= 9.51387E+06
```

• *fizcon* Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3448, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6
```

• Passed All Checks!

• *fizcon* Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=3450, MF= 8, MT=457
  GAMMA RAY NEEDED, SOURCE MODE=  4 SEQUENCE NUMBER  8
  GAMMA RAY NEEDED, SOURCE MODE=  4 SEQUENCE NUMBER 10
PARTICLE ENERGY (AE) SUMUP FAILURE
  WHOLE= 8.11486E+06  SUM= 7.97124E+06  SEQUENCE NUMBER  3
  ALPHA AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 7.97124E+06  SUM= 8.11758E+06
```

• *fizcon* Errors:

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=3451, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
  WHOLE= 7.44853E+06  SUM= 7.31728E+06  SEQUENCE NUMBER  3
  ALPHA MULTIPLICITY SUMUP FAILURE
```

628
• Passed All Checks!

• *fizcon* Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

    ERROR(S) FOUND IN MAT=3453, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER  6

• *fizcon* Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=3454, MF= 8, MT=457
    PARTICLE ENERGY (AE) SUMUP FAILURE
    WHOLE= 6.41785E+06 SUM= 6.30624E+06
    SEQUENCE NUMBER  3

    ALPHA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 6.30624E+06 SUM= 6.41993E+06

• *fizcon* Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=3455, MF= 8, MT=457
    PARTICLE ENERGY (AE) SUMUP FAILURE
    WHOLE= 6.00512E+06 SUM= 5.90113E+06
    SEQUENCE NUMBER  3

    ALPHA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 5.90113E+06 SUM= 6.00512E+06

• *fizcon* Errors:
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=3456, MF= 8, MT=457
    PARTICLE ENERGY (AE) SUMUP FAILURE
    WHOLE= 5.49848E+06 SUM= 5.40368E+06
    SEQUENCE NUMBER  3
• **fizcon** Errors:

  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=3457, MF= 8, MT=457

    PARTICLE ENERGY (AE) SUMUP FAILURE

    WHOLE= 5.00546E+06  SUM= 4.91952E+06  SEQUENCE NUMBER  3

• **checkr** Errors:

  1. STYPE out of order

    ERROR(S) FOUND IN MAT=3458, MF= 8, MT=457

    STYPE 5.0 OUT OF ORDER  SEQUENCE NUMBER  64

• **fizcon** Errors:

  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=3458, MF= 8, MT=457

    PARTICLE ENERGY (AE) SUMUP FAILURE

    WHOLE= 4.74524E+06  SUM= 4.66413E+06  SEQUENCE NUMBER  3

    ALPHA AVERAGE ENERGY SUMUP FAILURE

    WHOLE= 4.66413E+06  SUM= 4.74672E+06

    NEUTRON MULTIPLICITY SUMUP FAILURE

    WHOLE= 0.00000E+00  SUM= 1.00000E+00

• **Passed All Checks!**

• **checkr** Errors:

  1. STYPE out of order

    ERROR(S) FOUND IN MAT=3460, MF= 8, MT=457

    STYPE 5.0 OUT OF ORDER  SEQUENCE NUMBER  25

• **fizcon** Errors:

  1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=3460, MF= 8, MT=457
NEUTRON MULTIPLICITY SUMUP FAILURE
WHOLE= 0.00000E+00  SUM= 1.00000E+00
NEUTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 3.72260E-05  SUM= 2.27359E-03

Passed All Checks!

dec-090_Th_233.endf

Passed All Checks!

dec-090_Th_234.endf

Passed All Checks!

dec-090_Th_235.endf

Passed All Checks!

dec-090_Th_236.endf

Passed All Checks!

dec-090_Th_237.endf

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3465, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

dec-090_Th_238.endf

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3466, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

dec-091_Pa_212.endf

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3467, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

631
• `fizcon` Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

    ```
    ERROR(S) FOUND IN MAT=3468, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER      5
    ```

• `fizcon` Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

    ```
    ERROR(S) FOUND IN MAT=3469, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER      5
    ```

• `fizcon` Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

    ```
    ERROR(S) FOUND IN MAT=3470, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER      5
    ```

• `fizcon` Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

    ```
    ERROR(S) FOUND IN MAT=3471, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER      6
    ```

• `fizcon` Errors:

  1. Energies released in decay not adding up!

    ```
    ERROR(S) FOUND IN MAT=3472, MF= 8, MT=457
    GAMMA RAY NEEDED, SOURCE MODE= 4
    SEQUENCE NUMBER      8
    GAMMA RAY NEEDED, SOURCE MODE= 4
    SEQUENCE NUMBER      10
    GAMMA RAY NEEDED, SOURCE MODE= 4
    SEQUENCE NUMBER      12
    ```
dec-091_Pa_217m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3473, MF= 8, MT=457
   NEGATIVE SPIN NOT ALLOWED SEQUENCE NUMBER 4
   SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL SEQUENCE NUMBER 4
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0 SEQUENCE NUMBER 4
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

dec-091_Pa_218.endf

• fizcon Errors:

1. At least one gamma ray needed for given source mode

   ERROR(S) FOUND IN MAT=3474, MF= 8, MT=457
   GAMMA RAY NEEDED, SOURCE MODE= 4 SEQUENCE NUMBER 8
   GAMMA RAY NEEDED, SOURCE MODE= 4 SEQUENCE NUMBER 10

dec-091_Pa_219.endf

• fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=3475, MF= 8, MT=457
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 1.00808E+07 SUM= 9.90000E+06 SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 9.90000E+06 SUM= 1.00843E+07

dec-091_Pa_220.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3476, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

dec-091_Pa_221.endf

• fizcon Non-errors:

633
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=3477, MF=8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

• `fizcon` Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```plaintext
ERROR(S) FOUND IN MAT=3478, MF=8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

• `fizcon` Errors:

1. At least one gamma ray needed for given source mode

```plaintext
ERROR(S) FOUND IN MAT=3479, MF=8, MT=457
GAMMA RAY NEEDED, SOURCE MODE= 4
SEQUENCE NUMBER 8
GAMMA RAY NEEDED, SOURCE MODE= 4
SEQUENCE NUMBER 10
```

• `fizcon` Errors:

1. Energies released in decay not adding up!

```plaintext
ERROR(S) FOUND IN MAT=3480, MF=8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 7.69400E+06 SUM= 7.91264E+06
SEQUENCE NUMBER 1
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 7.81970E+06 SUM= 7.68251E+06
SEQUENCE NUMBER 3
ALPHA MULTIPLICITY SUMUP FAILURE
WHOLE= 1.00000E+00 SUM= 1.02925E+00
```

• `fizcon` Errors:

1. At least one gamma ray needed for given source mode

```plaintext
ERROR(S) FOUND IN MAT=3481, MF=8, MT=457
GAMMA RAY NEEDED, SOURCE MODE= 4
SEQUENCE NUMBER 8
GAMMA RAY NEEDED, SOURCE MODE= 4
SEQUENCE NUMBER 10
```
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3482, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3483, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3484, MF= 8, MT=457
TOO MANY DISCRETE SPECTRA FOR CODE TO PROCESS
SEQUENCE NUMBER 957
TOO MANY DISCRETE SPECTRA FOR CODE TO PROCESS
SEQUENCE NUMBER 3359
ELECTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 1.02504E+05 SUM= 9.20903E+04

Passed All Checks!

Passed All Checks!

Errors:
1. STYPE out of order

ERROR(S) FOUND IN MAT=3487, MF= 8, MT=457
STYPE 5.0 OUT OF ORDER
SEQUENCE NUMBER 266

Errors:
1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3487, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 5.14990E+06 SUM= 5.08158E+06 SEQUENCE NUMBER 1
PARTICLE ENERGY (AE) SUMUP FAILURE

__________________________dec-091_Pa_232.endf__________________________
• Passed All Checks!

__________________________dec-091_Pa_233.endf__________________________
• Passed All Checks!

__________________________dec-091_Pa_234.endf__________________________
• Passed All Checks!

__________________________dec-091_Pa_234m1.endf__________________________
• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3491, MF= 8, MT=457
BETA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 8.12090E+05 SUM= 8.08552E+05

__________________________dec-091_Pa_235.endf__________________________
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3492, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

__________________________dec-091_Pa_236.endf__________________________
• Passed All Checks!

__________________________dec-091_Pa_237.endf__________________________
• Passed All Checks!

__________________________dec-091_Pa_238.endf__________________________
• fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3495, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

Non-Errors:

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3496, MF= 8, MT=457
PARITY= 0.00000E+00 NOT +1.0 OR -1.0

Non-Errors:

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3497, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

Non-Errors:

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3498, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

Non-Errors:

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3499, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

637
• fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=3500, MF= 8, MT=457
   GAMMA RAY NEEDED, SOURCE MODE= 4
   TOTAL ENERGY RELEASE SUMUP FAILURE
   WHOLE= 9.96000E+06 SUM= 9.86019E+06
   SEQUENCE NUMBER 8
   ...

   dec-092_U_220.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3501, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

   dec-092_U_222.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3502, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

   dec-092_U_223.endf

• fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=3503, MF= 8, MT=457
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 8.93749E+06 SUM= 8.78000E+06
   SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 8.78000E+06 SUM= 8.94045E+06

   dec-092_U_224.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

638
ERROR(S) FOUND IN MAT=3504, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3505, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• Passed All Checks!

ERROR(S) FOUND IN MAT=3508, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3509, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Errors:
  1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=3510, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 5.96939E+06 SUM= 5.86735E+06 SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 5.86735E+06 SUM= 5.97125E+06

dec-092_U_231.endf

• Passed All Checks!

dec-092_U_232.endf

• checkr Errors:
  1. STYPE out of order
     ERROR(S) FOUND IN MAT=3512, MF= 8, MT=457
     STYPE 5.0 OUT OF ORDER SEQUENCE NUMBER 73

• fizcon Errors:
  1. Energies released in decay not adding up!
     ERROR(S) FOUND IN MAT=3512, MF= 8, MT=457
     PARTICLE ENERGY (AE) SUMUP FAILURE
     WHOLE= 5.39340E+06 SUM= 5.30199E+06 SEQUENCE NUMBER 3
     ALPHA AVERAGE ENERGY SUMUP FAILURE
     ...

dec-092_U_233.endf

• fizcon Errors:
  1. Energies released in decay not adding up!
     ERROR(S) FOUND IN MAT=3513, MF= 8, MT=457
     TOO MANY DISCRETE SPECTRA FOR CODE TO PROCESS SEQUENCE NUMBER 601
     TOO MANY DISCRETE SPECTRA FOR CODE TO PROCESS SEQUENCE NUMBER 2281
     PARTICLE ENERGY (AE) SUMUP FAILURE
     WHOLE= 4.88835E+06 SUM= 4.80585E+06 SEQUENCE NUMBER 3
     ALPHA AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 4.80585E+06 SUM= 4.88983E+06

dec-092_U_234.endf

• checkr Errors:
  1. STYPE out of order
ERROR(S) FOUND IN MAT=3514, MF= 8, MT=457
SType  5.0 OUT OF ORDER

• fizcon Errors:
  1. Energies released in decay not adding up!

  ERROR(S) FOUND IN MAT=3514, MF= 8, MT=457
  PARTICLE ENERGY (AE) SUMUP FAILURE
  WHOle= 4.84078E+06 SUM= 4.75943E+06
  ALPHa AVERAGE ENERGY SUMUP FAILURE

  dec-092_U_235.endf

• checkr Errors:
  1. STYPE out of order

  ERROR(S) FOUND IN MAT=3515, MF= 8, MT=457
  SType  5.0 OUT OF ORDER

• fizcon Errors:
  1. Energies released in decay not adding up!

  ERROR(S) FOUND IN MAT=3515, MF= 8, MT=457
  NEUTRON MULTIPLICITY SUMUP FAILURE
  WHOle= 0.00000E+00 SUM= 1.00000E+00
  NEUTRON AVERAGE ENERGY SUMUP FAILURE
  WHOle= 2.48544E-04 SUM= 1.21969E-02

  dec-092_U_235m1.endf

• fizcon Errors:
  1. Energies released in decay not adding up!

  ERROR(S) FOUND IN MAT=3516, MF= 8, MT=457
  TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOle= 7.65000E+01 SUM= 5.68000E+01

  dec-092_U_236.endf

• checkr Errors:
  1. STYPE out of order
ERROR(S) FOUND IN MAT=3517, MF=8, MT=457
STYPE 5.0 OUT OF ORDER

• **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=3517, MF=8, MT=457
     NEUTRON MULTIPLICITY SUMUP FAILURE
     WHOLE= 0.00000E+00 SUM= 1.00000E+00
     NEUTRON AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 3.16710E-03 SUM= 1.51739E-01

     \[\text{dec-092_U_237.endf}\]

• Passed All Checks!

     \[\text{dec-092_U_238.endf}\]

• **checkr** Errors:

  1. STYPE out of order

     ERROR(S) FOUND IN MAT=3519, MF=8, MT=457
     STYPE 5.0 OUT OF ORDER

     \[\text{dec-092_U_239.endf}\]

• **fizcon** Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=3519, MF=8, MT=457
     NEUTRON MULTIPLICITY SUMUP FAILURE
     WHOLE= 0.00000E+00 SUM= 1.00000E+00
     NEUTRON AVERAGE ENERGY SUMUP FAILURE
     WHOLE= 2.04313E+00 SUM= 9.09647E+01

     \[\text{dec-092_U_240.endf}\]

• Passed All Checks!

     \[\text{dec-092_U_241.endf}\]

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3522, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• Passed All Checks!

ERROR(S) FOUND IN MAT=3524, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3525, MF= 8, MT=457
GAMMA RAY NEEDED, SOURCE MODE= 4
SEQUENCE NUMBER 8

• fizcon Errors:
  1. At least one gamma ray needed for given source mode

ERROR(S) FOUND IN MAT=3526, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3527, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

• fizcon Non-errors:

643
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3528, MF=8, MT=457
NO DECAY SPECTRA GIVEN

• dec-093_Np_230.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3529, MF=8, MT=457
NO DECAY SPECTRA GIVEN

• dec-093_Np_231.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3530, MF=8, MT=457
PARITY=0.00000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN

• dec-093_Np_232.endf

• fizcon Errors:

1. Beta spectrum integral too small

ERROR(S) FOUND IN MAT=3531, MF=8, MT=457
FT VALUE TOO SMALL
FT=5.59647E+01 E=1.55570E+06 I=24

• dec-093_Np_233.endf

• Passed All Checks!

• dec-093_Np_234.endf

• Passed All Checks!

• dec-093_Np_235.endf

• Passed All Checks!

• dec-093_Np_236.endf

644
• Passed All Checks!

dec-093_Np_236m1.endf

• Passed All Checks!

dec-093_Np_237.endf

• fizocon Errors:

  1. Energies released in decay not adding up!

     ERROR(S) FOUND IN MAT=3537, MF= 8, MT=457
     PARTICLE ENERGY (AE) SUMUP FAILURE
     WHOLE= 4.86639E+06 SUM= 4.78562E+06 SEQUENCE NUMBER 3

• Passed All Checks!

dec-093_Np_238.endf

• Passed All Checks!

dec-093_Np_239.endf

• Passed All Checks!

dec-093_Np_240.endf

• Passed All Checks!

dec-093_Np_240m1.endf

• Passed All Checks!

dec-093_Np_241.endf

• Passed All Checks!

dec-093_Np_242.endf

• Passed All Checks!

dec-093_Np_242m1.endf

• fizocon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=3544, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

  2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and
     let science progress
ERROR(S) FOUND IN MAT=3544, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3545, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3546, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3547, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3548, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3549, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

_________________________dec-094_Pu_231.endf_________________________

• fizon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3550, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

_________________________dec-094_Pu_232.endf_________________________

• fizon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3551, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

_________________________dec-094_Pu_233.endf_________________________

• fizon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3552, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

_________________________dec-094_Pu_234.endf_________________________

• fizon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3553, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

_________________________dec-094_Pu_235.endf_________________________

• fizon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3554, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

---------------------------------------------------------------------

• checkr Errors:
  1. STYPE out of order
    ERROR(S) FOUND IN MAT=3555, MF= 8, MT=457
    STYPE 5.0 OUT OF ORDER

• fizcon Errors:
  1. Energies released in decay not adding up!
    ERROR(S) FOUND IN MAT=3555, MF= 8, MT=457
    PARTICLE ENERGY (AE) SUMUP FAILURE
    WHOLE= 5.85809E+06 SUM= 5.76045E+06
    ALPHA AVERAGE ENERGY SUMUP FAILURE

---------------------------------------------------------------------

• Passed All Checks!

---------------------------------------------------------------------

• checkr Errors:
  1. STYPE out of order
    ERROR(S) FOUND IN MAT=3558, MF= 8, MT=457
    STYPE 5.0 OUT OF ORDER

• fizcon Errors:
  1. Energies released in decay not adding up!
    ERROR(S) FOUND IN MAT=3558, MF= 8, MT=457
    PARTICLE ENERGY (AE) SUMUP FAILURE
    WHOLE= 5.57859E+06 SUM= 5.48638E+06
    ALPHA AVERAGE ENERGY SUMUP FAILURE

...
checkr Errors:
1. STYPE out of order
   ERROR(S) FOUND IN MAT=3559, MF=8, MT=457
   STYPE 5.0 OUT OF ORDER
   SEQUENCE NUMBER 603

fizcon Errors:
1. Energies released in decay not adding up!
   ERROR(S) FOUND IN MAT=3559, MF=8, MT=457
   TOO MANY DISCRETE SPECTRA FOR CODE TO PROCESS
   SEQUENCE NUMBER 605
   TOO MANY DISCRETE SPECTRA FOR CODE TO PROCESS
   SEQUENCE NUMBER 2365
   PARTICLE ENERGY (AE) SUMUP FAILURE

checkr Errors:
1. STYPE out of order
   ERROR(S) FOUND IN MAT=3560, MF=8, MT=457
   STYPE 5.0 OUT OF ORDER
   SEQUENCE NUMBER 66

fizcon Errors:
1. Energies released in decay not adding up!
   ERROR(S) FOUND IN MAT=3560, MF=8, MT=457
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE=5.24115E+06 SUM=5.15523E+06
   SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE

fizcon Errors:
1. Energies released in decay not adding up!
   ERROR(S) FOUND IN MAT=3561, MF=8, MT=457
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE=1.21986E+02 SUM=1.19994E+02
   SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE=1.19994E+02 SUM=1.22020E+02
fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=3562, MF= 8, MT=457
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 4.97273E+06 SUM= 4.89187E+06 SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 4.89187E+06 SUM= 4.97413E+06

Passed All Checks!

checkr Errors:

1. STYPE out of order

   ERROR(S) FOUND IN MAT=3564, MF= 8, MT=457
   STYPE 5.0 OUT OF ORDER SEQUENCE NUMBER 20

fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=3564, MF= 8, MT=457
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 4.87143E+06 SUM= 4.79643E+06 SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE

...
ERROR(S) FOUND IN MAT=3567, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3568, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3569, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 7

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3570, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3571, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
     this even if we can’t evaluate it.

651
ERROR(S) FOUND IN MAT=3572, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

sequence number: 6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3573, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

sequence number: 6

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3574, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
  WHOLE= 1.53599E+03 SUM= 1.51050E+03
  SEQUENCE NUMBER: 3

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3575, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
  WHOLE= 2.26000E+06 SUM= 1.93001E+06
  SEQUENCE NUMBER: 1

 ...

• Passed All Checks!

• Passed All Checks!

• checkr Errors:
  1. STYPE out of order

652
ERROR(S) FOUND IN MAT=3578, MF= 8, MT=457
SType  5.0 OUT OF ORDER  SEQUENCE NUMBER  319

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3578, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 5.58115E+06  SUM= 5.49003E+06  SEQUENCE NUMBER  3

• Passed All Checks!

• fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3580, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 2.44100E+04  SUM= 2.37283E+04  SEQUENCE NUMBER  3

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3581, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED  SEQUENCE NUMBER  4
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL  SEQUENCE NUMBER  4
PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER  4
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

• checkr Errors:

1. STYPE out of order

ERROR(S) FOUND IN MAT=3582, MF= 8, MT=457
SType  5.0 OUT OF ORDER  SEQUENCE NUMBER  89

653
fizcon Errors:

1. Energies released in decay not adding up!

   ERROR(S) FOUND IN MAT=3582, MF= 8, MT=457
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 5.35619E+06 SUM= 5.26945E+06
   SEQUENCE NUMBER 3
   ALPHA AVERAGE ENERGY SUMUP FAILURE

   dec-095_Am_244.endf

• Passed All Checks!

   dec-095_Am_244m1.endf

• Passed All Checks!

   dec-095_Am_245.endf

• Passed All Checks!

   dec-095_Am_246.endf

• Passed All Checks!

   dec-095_Am_246m1.endf

• Passed All Checks!

   dec-095_Am_247.endf

fizcon Non-errors:

1. We don’t know the parity of a level in the nucleus in question, FIZCON should just lighten up and let science progress

   ERROR(S) FOUND IN MAT=3588, MF= 8, MT=457
   PARITY= 0.00000E+00 NOT +1.0 OR -1.0
   SEQUENCE NUMBER 4

   dec-095_Am_248.endf

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3589, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

   dec-095_Am_249.endf

654
• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=3590,  MF= 8,  MT=457
     NO DECAY SPECTRA GIVEN

              SEQUENCE NUMBER  5

   dec-096_Cm_233.endf

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=3591,  MF= 8,  MT=457
     NO DECAY SPECTRA GIVEN

              SEQUENCE NUMBER  6

   dec-096_Cm_234.endf

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=3592,  MF= 8,  MT=457
     NO DECAY SPECTRA GIVEN

              SEQUENCE NUMBER  7

   dec-096_Cm_235.endf

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=3593,  MF= 8,  MT=457
     NO DECAY SPECTRA GIVEN

              SEQUENCE NUMBER  6

   dec-096_Cm_236.endf

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=3594,  MF= 8,  MT=457
     NO DECAY SPECTRA GIVEN

              SEQUENCE NUMBER  6

   dec-096_Cm_237.endf

655
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT=3595, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6
   dec-096_Cm_238.endf
   ```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT=3596, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6
   dec-096_Cm_239.endf
   ```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ```
   ERROR(S) FOUND IN MAT=3597, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6
   dec-096_Cm_240.endf
   ```

• **fizcon** Errors:

1. Energies released in decay not adding up!

   ```
   ERROR(S) FOUND IN MAT=3598, MF= 8, MT=457
   PARTICLE ENERGY (AE) SUMUP FAILURE
   WHOLE= 6.38687E+06 SUM= 6.28217E+06 SEQUENCE NUMBER 3
   alpha AVERAGE ENERGY SUMUP FAILURE
   WHOLE= 6.28217E+06 SUM= 6.3869E+06
   dec-096_Cm_241.endf
   ```

• **Passed All Checks!**

• **checkr** Errors:

1. STYPE out of order
ERROR(S) FOUND IN MAT=3600, MF= 8, MT=457
STYP E 5.0 OUT OF ORDER

fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3600, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 6.20478E+06 SUM= 6.10389E+06
ALPHA AVERAGE ENERGY SUMUP FAILURE

Passed All Checks!

checkr Errors:

1. STYPE out of order

ERROR(S) FOUND IN MAT=3602, MF= 8, MT=457
STYPE 5.0 OUT OF ORDER

fizcon Errors:

1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3602, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 5.89168E+06 SUM= 5.79666E+06
ALPHA AVERAGE ENERGY SUMUP FAILURE

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3603, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

2. We don’t know the energy of the isomer in question. FIZCON should just lighten up and let science progress.
ERROR(S) FOUND IN MAT=3603, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

dec-096_Cm_245.endf

• **fizcon Errors:**
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=3604, MF= 8, MT=457
    PARTICLE ENERGY (AE) SUMUP FAILURE
    WHOLE= 5.47543E+06 SUM= 5.38747E+06  SEQUENCE NUMBER 3
    ALPHA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 5.38747E+06 SUM= 5.47692E+06

    dec-096_Cm_246.endf

• **checkr Errors:**
  1. STYPE out of order

    ERROR(S) FOUND IN MAT=3605, MF= 8, MT=457
    STYPE 5.0 OUT OF ORDER  SEQUENCE NUMBER 20

• **fizcon Errors:**
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=3605, MF= 8, MT=457
    NEUTRON MULTIPLICITY SUMUP FAILURE
    WHOLE= 0.00000E+00 SUM= 1.00000E+00
    NEUTRON AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 1.56997E+03 SUM= 4.79397E+04

    dec-096_Cm_247.endf

• **fizcon Errors:**
  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=3606, MF= 8, MT=457
    PARTICLE ENERGY (AE) SUMUP FAILURE
    WHOLE= 5.02886E+06 SUM= 4.94872E+06  SEQUENCE NUMBER 3

    dec-096_Cm_248.endf

• **checkr Errors:**
  1. STYPE out of order
ERROR(S) FOUND IN MAT=3607, MF= 8, MT=457
SType 5.0 OUT OF ORDER
SEQUENCE NUMBER 27

fizcon Errors:
1. Energies released in decay not adding up!
ERROR(S) FOUND IN MAT=3607, MF= 8, MT=457
TOTAL ENERGY RELEASE SUMUP FAILURE
WHOLE= 2.06361E+07  SUM= 1.98107E+07
PARTICLE ENERGY (AE) SUMUP FAILURE

Passed All Checks!

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3609, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 7

Passed All Checks!

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3611, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3612, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6
• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3613, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3614, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3615, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3616, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3617, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3618, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER  6
```

Passed All Checks!

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3622, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER  5
```

Passed All Checks!

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3624, MF= 8, MT=457
NEUTRON MULTIPLICITY SUMUP FAILURE
WHOLES= 0.00000E+00  SUMS= 1.00000E+00
```

Passed All Checks!
• Passed All Checks!
  
  dec-097_Bk_253.endf
  
  • fizcon Non-errors:
    1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3627, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5
  
  dec-097_Bk_254.endf
  
  • fizcon Non-errors:
    1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3628, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5
  
  dec-098_Cf_237.endf
  
  • fizcon Non-errors:
    1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3629, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5
  
  dec-098_Cf_238.endf
  
  • fizcon Non-errors:
    1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3630, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5
  
  dec-098_Cf_239.endf
  
  • fizcon Non-errors:
    1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3631, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

sequence number 6

---

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3632, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

sequence number 6

---

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3633, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

sequence number 6

---

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3634, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

sequence number 7

---

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3635, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

sequence number 6

---

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3636, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

dec-098_Cf_245.endf

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3637, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL
PARITY= 0.000000E+00 NOT +1.0 OR -1.0
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 4 4 4 6

dec-098_Cf_246.endf

• fizcon Errors:

  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3638, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 6.85528E+06 SUM= 6.74560E+06
SEQUENCE NUMBER 3

dec-098_Cf_247.endf

• Passed All Checks!

dec-098_Cf_248.endf

• fizcon Errors:

  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3640, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 6.35002E+06 SUM= 6.24922E+06
SEQUENCE NUMBER 3

dec-098_Cf_249.endf

• checkr Errors:

  1. STYPE out of order

ERROR(S) FOUND IN MAT=3641, MF= 8, MT=457
STYPE 5.0 OUT OF ORDER
SEQUENCE NUMBER 197
• fizcon Errors:
  1. Energies released in decay not adding up!
     ERROR(S) FOUND IN MAT=3641, MF= 8, MT=457
     PARTICLE ENERGY (AE) SUMUP FAILURE
     WHOLE= 5.91321E+06 SUM= 5.81972E+06 SEQUENCE NUMBER 3
     ALPHA AVERAGE ENERGY SUMUP FAILURE
     ...

• checkr Errors:
  1. STYPE out of order
     ERROR(S) FOUND IN MAT=3642, MF= 8, MT=457
     STYPE  5.0 OUT OF ORDER SEQUENCE NUMBER 30

• fizcon Errors:
  1. Energies released in decay not adding up!
     ERROR(S) FOUND IN MAT=3642, MF= 8, MT=457
     PARTICLE ENERGY (AE) SUMUP FAILURE
     WHOLE= 6.11585E+06 SUM= 6.16415E+06 SEQUENCE NUMBER 3
     ALPHA AVERAGE ENERGY SUMUP FAILURE
     ...

• fizcon Errors:
  1. Energies released in decay not adding up!
     ERROR(S) FOUND IN MAT=3643, MF= 8, MT=457
     PARTICLE ENERGY (AE) SUMUP FAILURE
     WHOLE= 5.87858E+06 SUM= 5.78637E+06 SEQUENCE NUMBER 3

• fizcon Errors:
  1. A unknown parameter is outside of legal limits
     ERROR(S) FOUND IN MAT=3644, MF= 5, MT= 18
     PARAMETER TABLE ENERGY RANGE INCORRECT SEQUENCE NUMBER 5
  2. Energies released in decay not adding up!

665
ERROR(S) FOUND IN MAT=3644, MF= 8, MT=457
ELECTRON AVERAGE ENERGY SUMUP FAILURE
WHOLE= 4.57000E+03 SUM= 4.17025E+03

• Passed All Checks!

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3646, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3647, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3648, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3649, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

666
• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3650, MF=8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 6

    dec-099_Es_242.endf

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3651, MF=8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 6

    dec-099_Es_243.endf

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3652, MF=8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 6

    dec-099_Es_244.endf

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3653, MF=8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 6

    dec-099_Es_245.endf

• fizcon Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3654, MF=8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 6

    dec-099_Es_246.endf

667
• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3655, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 7

---

**dec-099_Es_247.endf**

---

**dec-099_Es_247m1.endf**

---

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3656, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 6

---

**dec-099_Es_247m1.endf**

---

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3657, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

   ERROR(S) FOUND IN MAT=3657, MF= 1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE

   SEQUENCE NUMBER 2

---

**dec-099_Es_248.endf**

---

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3658, MF= 8, MT=457
   NEGATIVE SPIN NOT ALLOWED

   SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL

   PARITY= 0.00000E+00 NOT +1.0 OR -1.0

   NO DECAY SPECTRA GIVEN

   SEQUENCE NUMBER 4

   SEQUENCE NUMBER 4

   SEQUENCE NUMBER 4

   SEQUENCE NUMBER 6

---

**dec-099_Es_249.endf**

---

668
• Passed All Checks!

• **fizcon** Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3660, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN

• Passed All Checks!

• **fizcon** Errors:

  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=3662, MF= 8, MT=457
    E.C. MULTIPLICITY SUMUP FAILURE
    WHOLE= 9.95000E-01 SUM= 1.02997E+00

• Passed All Checks!

• **fizcon** Errors:

  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=3664, MF= 8, MT=457
    NEUTRON MULTIPLICITY SUMUP FAILURE
    WHOLE= 0.00000E+00 SUM= 1.00000E+00

• Passed All Checks!

• **fizcon** Errors:

  1. Energies released in decay not adding up!

    ERROR(S) FOUND IN MAT=3665, MF= 8, MT=457
    PARTICLE ENERGY (AE) SUMUP FAILURE
    WHOLE= 6.49928E+06 SUM= 6.39852E+06
    SEQUENCE NUMBER 3
    ALPHA AVERAGE ENERGY SUMUP FAILURE
    WHOLE= 6.39852E+06 SUM= 6.50092E+06
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3666, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 9

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3667, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 7

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3668, MF= 8, MT=457
NEGATIVE SPIN NOT ALLOWED  SEQUENCE NUMBER 4
SPIN SHOULD BE INTEGRAL OR HALF INTEGRAL  SEQUENCE NUMBER 4
PARITY= 0.00000E+00 NOT +1.0 OR -1.0  SEQUENCE NUMBER 4
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3669, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=3669, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE  SEQUENCE NUMBER 2
• *fizcon* Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3670, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 6

• *fizcon* Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3671, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 6

• *fizcon* Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3672, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5

• *fizcon* Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3673, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5

• *fizcon* Non-errors:

  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

    ERROR(S) FOUND IN MAT=3674, MF= 8, MT=457
    NO DECAY SPECTRA GIVEN
    SEQUENCE NUMBER 5

671
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3675, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3676, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 7

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3677, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3678, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 7

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3679, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3680, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 7
```

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

```
ERROR(S) FOUND IN MAT=3681, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
SEQUENCE NUMBER 2
```

1. Energies released in decay not adding up!

```
ERROR(S) FOUND IN MAT=3683, MF= 8, MT=457

PARTICLE ENERGY (AE) SUMUP FAILURE
WHOLE= 7.14242E+06 SUM= 7.03082E+06

ALPHA AVERAGE ENERGY SUMUP FAILURE
WHOLE= 7.03082E+06 SUM= 7.14426E+06
```

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3684, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

=================================
dec-100_Fm_254.endf

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3685, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
  WHOLE= 7.29562E+06  SUM= 7.18251E+06  SEQUENCE NUMBER  3
_ALPHA AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 7.18251E+06  SUM= 7.29747E+06

=================================
dec-100_Fm_255.endf

• fizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3686, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
  WHOLE= 7.16488E+06  SUM= 7.05423E+06  SEQUENCE NUMBER  3
_ALPHA AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 7.05423E+06  SUM= 7.16668E+06

=================================
dec-100_Fm_256.endf

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires
      this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3687, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

=================================
dec-100_Fm_257.endf

• vizcon Errors:
  1. Energies released in decay not adding up!

ERROR(S) FOUND IN MAT=3688, MF= 8, MT=457
PARTICLE ENERGY (AE) SUMUP FAILURE
  WHOLE= 6.65791E+06  SUM= 6.51623E+06  SEQUENCE NUMBER  3
_ALPHA AVERAGE ENERGY SUMUP FAILURE
  WHOLE= 6.51623E+06  SUM= 6.61928E+06
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=3689, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER  5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=3690, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER  5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=3691, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER  5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=3692, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER  6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

     ERROR(S) FOUND IN MAT=3693, MF= 8, MT=457
     NO DECAY SPECTRA GIVEN
     SEQUENCE NUMBER  6
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

      ERROR(S) FOUND IN MAT=3694, MF= 8, MT=457
      NO DECAY SPECTRA GIVEN          SEQUENCE NUMBER  5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

      ERROR(S) FOUND IN MAT=3695, MF= 8, MT=457
      NO DECAY SPECTRA GIVEN          SEQUENCE NUMBER  5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

      ERROR(S) FOUND IN MAT=3696, MF= 8, MT=457
      NO DECAY SPECTRA GIVEN          SEQUENCE NUMBER  5

  2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

      ERROR(S) FOUND IN MAT=3696, MF= 1, MT=451
      ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE    SEQUENCE NUMBER  2

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

      ERROR(S) FOUND IN MAT=3697, MF= 8, MT=457
      NO DECAY SPECTRA GIVEN          SEQUENCE NUMBER  7
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3698, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6
```

| dec-101_Md_249m1.endf |

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3699, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

```
ERROR(S) FOUND IN MAT=3699, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
SEQUENCE NUMBER 2
```

| dec-101_Md_250.endf |

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3700, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6
```

| dec-101_Md_251.endf |

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3701, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6
```

| dec-101_Md_252.endf |

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3702, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3703, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3704, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3705, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

  2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=3705, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
SEQUENCE NUMBER 2

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3706, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 7
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3707, MF=8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3708, MF=8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3709, MF=8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3710, MF=8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

   ERROR(S) FOUND IN MAT=3710, MF=1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3710, MF=1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3711, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

---

**fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3712, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 8

---

**fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3713, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

---

**fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3714, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

---

**fizcon Non-errors:**

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3715, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

---

**fizcon Non-errors:**
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3716, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

dec-102_No_252.endf

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3717, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 7
```

dec-102_No_253.endf

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3718, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

dec-102_No_254.endf

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3719, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 7
```

dec-102_No_254m1.endf

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3720, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

dec-102_No_255.endf

• **fizcon** Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=3721, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER  6

   dec-102_No_256.endf

- Passed All Checks!

   dec-102_No_257.endf

- fizcon Errors:

   1. At least one gamma ray needed for given source mode

   ERROR(S) FOUND IN MAT=3723, MF= 8, MT=457
   GAMMA RAY NEEDED, SOURCE MODE=  4
   SEQUENCE NUMBER  8
   GAMMA RAY NEEDED, SOURCE MODE=  4
   SEQUENCE NUMBER 10

   dec-102_No_258.endf

- fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=3724, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER  5

   dec-102_No_259.endf

- fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=3725, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER  7

   dec-102_No_260.endf

- fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.

   ERROR(S) FOUND IN MAT=3726, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER  5

682
fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3727, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3728, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3729, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3730, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  7

fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3731, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  6
Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3732, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

   ERROR(S) FOUND IN MAT=3732, MF=1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
   SEQUENCE NUMBER 2

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3733, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 7

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3734, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3735, MF=8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 6

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3736, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3737, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3738, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3739, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3740, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

• fizcon Non-errors:

685
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3741, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

   dec-103_Lr_262.endf

   • fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3742, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

   dec-103_Lr_263.endf

   • fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3743, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

   dec-104_Rf_253.endf

   • fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3744, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 7

   dec-104_Rf_254.endf

   • fizcon Non-errors:

   1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3745, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

   dec-104_Rf_255.endf

   • fizcon Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3746, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

```dec-104_Rf_256.endf```

* **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3747, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

```dec-104_Rf_257.endf```

* **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3748, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

```dec-104_Rf_257m1.endf```

* **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3749, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

```dec-104_Rf_258.endf```

* **fizcon** Non-errors:

1. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

```
ERROR(S) FOUND IN MAT=3749, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
```

```dec-104_Rf_256.endf```

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3750, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  
SEQUENCE NUMBER 6

dec-104_Rf_259.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3751, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  
SEQUENCE NUMBER 6

dec-104_Rf_260.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3752, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  
SEQUENCE NUMBER 5

dec-104_Rf_261.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3753, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  
SEQUENCE NUMBER 7

dec-104_Rf_261m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3754, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  
SEQUENCE NUMBER 7

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress.

ERROR(S) FOUND IN MAT=3754, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE  
SEQUENCE NUMBER 2

688
• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

\[
\text{ERROR(S) FOUND IN MAT=3755, MF= 8, MT=457}
\]
\[
\text{NO DECAY SPECTRA GIVEN}
\]
\[
\text{SEQUENCE NUMBER 6}
\]

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

\[
\text{ERROR(S) FOUND IN MAT=3756, MF= 8, MT=457}
\]
\[
\text{NO DECAY SPECTRA GIVEN}
\]
\[
\text{SEQUENCE NUMBER 5}
\]

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

\[
\text{ERROR(S) FOUND IN MAT=3757, MF= 8, MT=457}
\]
\[
\text{NO DECAY SPECTRA GIVEN}
\]
\[
\text{SEQUENCE NUMBER 5}
\]

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

\[
\text{ERROR(S) FOUND IN MAT=3758, MF= 8, MT=457}
\]
\[
\text{NO DECAY SPECTRA GIVEN}
\]
\[
\text{SEQUENCE NUMBER 5}
\]

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

\[
\text{ERROR(S) FOUND IN MAT=3759, MF= 8, MT=457}
\]
\[
\text{NO DECAY SPECTRA GIVEN}
\]
\[
\text{SEQUENCE NUMBER 6}
\]

689
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3760, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 7

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3761, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3762, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=3762, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
SEQUENCE NUMBER 2

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3763, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 7

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3764, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

```
ERROR(S) FOUND IN MAT=3764, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
```

SEQUENCE NUMBER 2

---

```
dec-105_Db_259.endf
```

- **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3765, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

SEQUENCE NUMBER 5

---

```
dec-105_Db_260.endf
```

- **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3766, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

SEQUENCE NUMBER 7

---

```
dec-105_Db_261.endf
```

- **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3767, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
```

SEQUENCE NUMBER 6

---

```
dec-105_Db_262.endf
```

- **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3768, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

- dec-105_Db_263.endf

- fizcon

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3769, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

- dec-105_Db_264.endf

- fizcon

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3770, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

- dec-105_Db_265.endf

- fizcon

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3771, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

- dec-106_Sg_258.endf

- fizcon

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3772, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

- dec-106_Sg_259.endf

- fizcon

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
**ERROR(S) FOUND IN MAT=3773, MF= 8, MT=457**

**NO DECAY SPECTRA GIVEN**

**SEQUENCE NUMBER 6**

---

**dec-106_Sg_260.endf**

- **fizcon** Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

**ERROR(S) FOUND IN MAT=3774, MF= 8, MT=457**

**NO DECAY SPECTRA GIVEN**

**SEQUENCE NUMBER 6**

---

**dec-106_Sg_261.endf**

- **fizcon** Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

**ERROR(S) FOUND IN MAT=3775, MF= 8, MT=457**

**NO DECAY SPECTRA GIVEN**

**SEQUENCE NUMBER 6**

---

**dec-106_Sg_262.endf**

- **fizcon** Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

**ERROR(S) FOUND IN MAT=3776, MF= 8, MT=457**

**NO DECAY SPECTRA GIVEN**

**SEQUENCE NUMBER 6**

---

**dec-106_Sg_263.endf**

- **fizcon** Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

**ERROR(S) FOUND IN MAT=3777, MF= 8, MT=457**

**NO DECAY SPECTRA GIVEN**

**SEQUENCE NUMBER 6**

---

**dec-106_Sg_263m1.endf**

- **fizcon** Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
2. We don’t know the energy of the isomer in question. FIZCON should just lighten up and let science progress.

ERROR(S) FOUND IN MAT=3778, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3779, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3780, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3781, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3782, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5
Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3783, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3784, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3785, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3786, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=3786, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
SEQUENCE NUMBER 2

Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3787, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

```
dec-107_Bh_264.endf
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3788, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

```
dec-107_Bh_265.endf
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3789, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

```
dec-107_Bh_266.endf
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3790, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

```
dec-107_Bh_267.endf
```

• **fizcon** Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

```
ERROR(S) FOUND IN MAT=3791, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5
```

```
dec-107_Bh_269.endf
```

• **fizcon** Non-errors:
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3792, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• dec-108_Hs_263.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3793, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• dec-108_Hs_264.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3794, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

• dec-108_Hs_265.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3795, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 6

• dec-108_Hs_265m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3796, MF= 8, MT=457
NO DECAY SPECTRA GIVEN
SEQUENCE NUMBER 5

• dec-108_Hs_266.endf

• fizcon Non-errors:

697
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3797, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3798, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3799, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3800, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon

Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3801, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

• fizcon

Non-errors:

698
1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3802, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

   dec-109_Mt_266.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3803, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

   dec-109_Mt_266m1.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3804, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

   ERROR(S) FOUND IN MAT=3804, MF= 1, MT=451
   ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE
   SEQUENCE NUMBER 2

   dec-109_Mt_267.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

   ERROR(S) FOUND IN MAT=3805, MF= 8, MT=457
   NO DECAY SPECTRA GIVEN
   SEQUENCE NUMBER 5

   dec-109_Mt_268.endf

• fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
ERROR(S) FOUND IN MAT=3806, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

------------------------------- dec-109_Mt_269.endf ----------------------------------

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3807, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

------------------------------- dec-109_Mt_270.endf ----------------------------------

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3808, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

------------------------------- dec-109_Mt_271.endf ----------------------------------

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3809, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

------------------------------- dec-109_Mt_273.endf ----------------------------------

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3810, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

------------------------------- dec-110_Ds_267.endf ----------------------------------

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

700
ERROR(S) FOUND IN MAT=3811, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3812, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3813, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3814, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3815, MF= 8, MT=457
NO DECAY SPECTRA GIVEN

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

701
ERROR(S) FOUND IN MAT=3816, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

ERROR(S) FOUND IN MAT=3817, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

ERROR(S) FOUND IN MAT=3817, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE SEQUENCE NUMBER 2

ERROR(S) FOUND IN MAT=3818, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

ERROR(S) FOUND IN MAT=3819, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 5

ERROR(S) FOUND IN MAT=3820, MF= 8, MT=457
NO DECAY SPECTRA GIVEN SEQUENCE NUMBER 6

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

• fizcon Non-errors:
  1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.
2. We don’t know the energy of the isomer in question, FIZCON should just lighten up and let science progress

ERROR(S) FOUND IN MAT=3820, MF= 1, MT=451
ELIS SHOULD NOT BE ZERO FOR A METASTABLE STATE  SEQUENCE NUMBER  2

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dec-111_Rg_272.endf

- Fizcon Non-errors:

1. Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can’t evaluate it.

ERROR(S) FOUND IN MAT=3821, MF= 8, MT=457
NO DECAY SPECTRA GIVEN  SEQUENCE NUMBER  5