

Revision of Fission Yields Uncertainties in ENDF/B-VIII.0

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Abstract

The spontaneous and neutron-induced fission yield sublibraries in the Evaluated Nuclear Data Files (ENDF/B) contain cumulative and independent fission yield values for dozens of fissioning systems, and hundreds of fission products. In this work, we report on a correction step that was undertaken after observing anomalously large uncertainties for several end-of-chain fission products. A total of 17 cumulative fission yield uncertainties and the value of 2 independent yields were corrected as a result of this revision.

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Introduction

The ENDF/B-VIII.0 library [1] contains neutron-induced independent and cumulative fission yield (FY) data for 31 targets, ranging from ²²⁷Th to ²⁵⁵Fm, as well as for 9 nuclides, from ²³⁸U to ²⁵⁶Fm, following spontaneous fission. Independent and cumulative FYs are given for a number of materials, which correspond to ground states and long-lived isomers of nuclides that are populated in the fission process. The foundation for both the neutron-induced FY sublibrary (NFY) and the spontaneous FY sublibrary (SFY) is the seminal compilation and evaluation work of T. R. England and B. F. Rider [2].

Cumulative yields (CY) are recursively defined as:

$$CY_j = IY_j + \sum b_{jk} CY_k, \quad (1)$$

where b_{jk} is the probability that the k -labeled material decays to the j -labeled one, and as a result, CYs are related to the independent yields (IYs) via:

$$CY_j = \sum B_{jk} IY_k, \quad (2)$$

where B_{jk} is a product of the relevant b_{jk} values.

A close examination of the ENDF/B-VIII.0 yields reveals that several CY uncertainties for nuclides close to the valley of stability are anomalously large. As an example, Figure 1 plots the ENDF/B-VIII.0 and ENDF/B-V.6 chain yields for the thermal-neutron induced fission of ²³⁵U, showing a remarkable error bar for $A = 90$ and 135 in ENDF/B-VIII.0. These large uncertainties seem to have been introduced in the release of ENDF/B-VI.8, and are not supported by JEFF-3.3 [3] values, nor by the precise measurement of Maecck and collaborators [4].

In this work, we identify a number of nuclides that were affected by the ENDF/B-VI.8 update, and we recalculate their CY uncertainties. Additionally, IY and CY values of ¹⁰⁹Ru and ¹⁰⁹Rh have been corrected, since their isomers have not been experimentally observed to date.

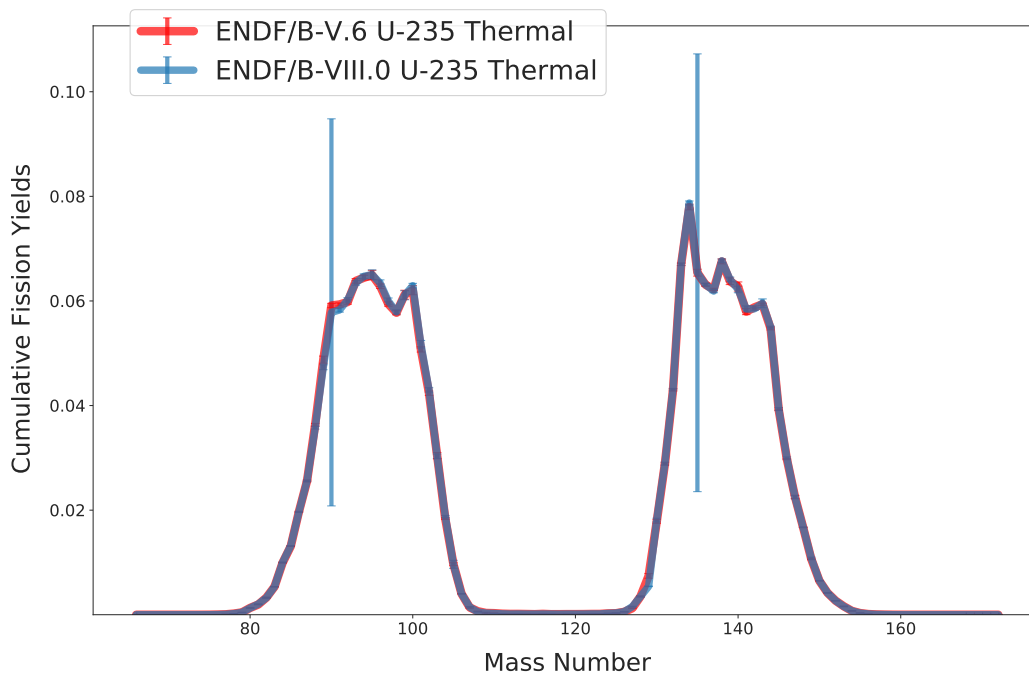


Figure 1. Mass-chain yields for thermal-neutron induced fission of ^{235}U from ENDF/B-VIII.0 (red) and ENDF/B-V.6 (blue).

Updated fission products

In the following section we present the nuclides corrected in this process, along with the reason behind the anomalous uncertainties and the approach used to correct them.

To ensure consistency with the rest of the FY sublibrary, the values and uncertainties of the branching ratios used in this work are those from ENDF/B-VI.8.

Corrected values for all nuclides are presented in Table 2 and 3 at the end of this report.

A = 90 (^{90g}Y and ^{90g}Zr)

The analysis of CY uncertainties for A = 90 shows an unusual trend: while the uncertainties are expected to decrease closer to stability (as we approach nuclides whose yield is more precisely determined experimentally), the uncertainties are anomalously large for ^{90g}Y and ^{90g}Zr , as shown in Figure 2. This is particularly striking for the ground state of these nuclides, as their CY essentially corresponds to the chain yields of A = 90. The decay chain is shown in Figure 3.

The CY of ^{90g}Y was calculated as the sum of the CY of ^{90}Sr , and the IYs of ^{90m}Y and ^{90g}Y , as given by Equation 3.

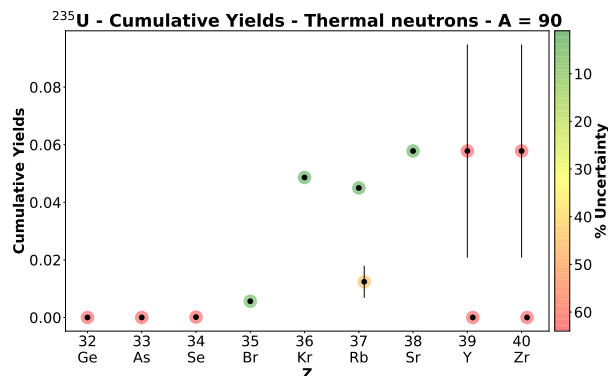


Figure 2. Cumulative FYs and relative uncertainties of fission products of A = 90, for the thermal fission of ^{235}U .

$$\Delta^2 CY(^{90g}\text{Y}_{\text{mod}}) = \Delta^2 CY(^{90}\text{Sr}) + \Delta^2 IY(^{90m}\text{Y}) + \Delta^2 IY(^{90g}\text{Y}) \quad (3)$$

The CY of ^{90g}Zr was calculated as the sum of the updated CY of ^{90}Y ($^{90}\text{Y}_{\text{mod}}$), and the IYs of ^{90m}Zr and ^{90g}Zr :

$$\Delta^2 CY(^{90g}\text{Zr}_{\text{mod}}) = \Delta^2 CY(^{90g}\text{Y}_{\text{mod}}) + \Delta^2 IY(^{90m}\text{Zr}) + \Delta^2 IY(^{90g}\text{Zr}) \quad (4)$$

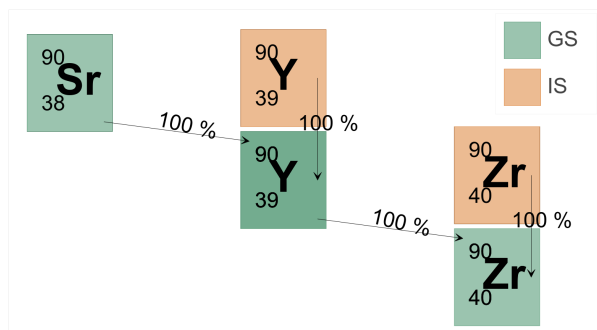


Figure 3. Decay scheme used to calculate CYs in mass chain 90. The arrows connect parent and daughter nuclei, and the value on the arrow represents the branching ratio (in %) of that particular decay mode.

A = 91 ($^{91m/91g}\text{Y}$)

The anomalous trend for the uncertainties of $^{91m/91g}\text{Y}$ is shown in Figure 4, while the portion of the decay chain of interest for $^{91m/91g}\text{Y}$ is shown in Figure 5. With ^{91}Sr decaying to both the ground states (GS) and isomeric states (IS) of ^{91}Y , the uncertainty of the branching ratio also contributes to the final uncertainty of the CY of ^{91m}Y .

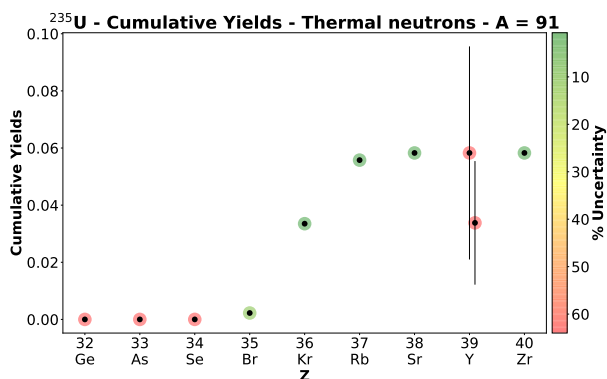


Figure 4. Cumulative FYs and relative uncertainties of fission products of A = 91, for the thermal fission of ^{235}U .

The CY of ^{91m}Y can be obtained as the sum of the fraction $((59.10 \pm 2.20) \%)$ of the CY of ^{91}Sr decaying to the isomer, and the IY of ^{91m}Y . Its uncertainty can be estimated as:

$$\Delta^2 CY(^{91m}\text{Y}_{\text{mod}}) = BR^2(^{91}\text{Sr} \rightarrow ^{91m}\text{Y}) \cdot \Delta^2 CY(^{91}\text{Sr}) + \Delta^2 IY(^{91m}\text{Y}) + \Delta^2 BR(^{91}\text{Sr} \rightarrow ^{91m}\text{Y}) \cdot CY^2(^{91}\text{Sr}), \quad (5)$$

where $BR(^{91}\text{Sr} \rightarrow ^{91m}\text{Y})$ and $\Delta BR(^{91}\text{Sr} \rightarrow ^{91m}\text{Y})$ are the branching ratio of ^{91}Sr decaying to ^{91m}Y and its uncertainty, respectively.

The CY of ^{91g}Y can be obtained as the sum of the CY of ^{91}Sr , and the IYs of ^{91m}Y and ^{91g}Y . Its uncertainty can be estimated as:

$$\Delta^2 CY(^{91g}\text{Y}_{\text{mod}}) = \Delta^2 CY(^{91}\text{Sr}) + \Delta^2 IY(^{91m}\text{Y}) + \Delta^2 IY(^{91g}\text{Y}), \quad (6)$$

where in this case, the uncertainty on the BR doesn't contribute to the final uncertainty, since both branches (summing to 100 %) reach the ground state of ^{91}Y , either directly, or through the CY of ^{91m}Y , which in turn decays entirely by internal transition to its GS.

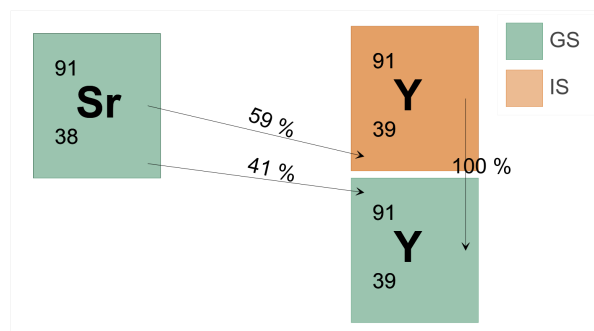


Figure 5. Decay scheme used to calculate CYs in mass chain 91. The arrows connect parent and daughter nuclei, and the value on the arrow represents the branching ratio (in %) of that particular decay mode.

A = 93 ($^{93m/93g}\text{Y}$)

The anomalous trend for the uncertainties of $^{93m/93g}\text{Y}$ is shown in Figure 6, while the portion of the decay chain of interest for $^{93m/93g}\text{Y}$ is shown in Figure 7.

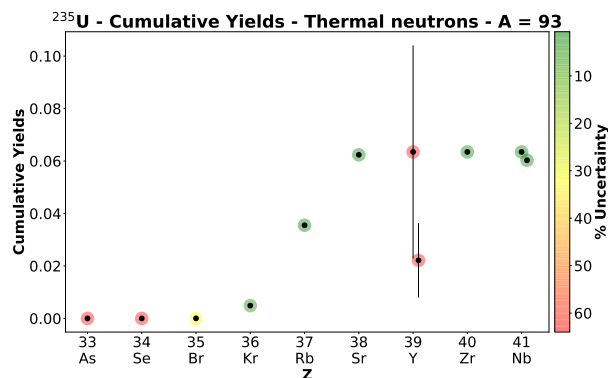


Figure 6. Cumulative FYs and relative uncertainties of fission products of A = 93, for the thermal fission of ^{235}U .

In a similar fashion to what was derived for A = 91, the CY of ^{93m}Y is the sum of a fraction (in this case $(34.2 \pm 2.1) \%$) of the CY of ^{93}Sr , and of the IY of ^{93m}Y .

itself. The corresponding uncertainty can be calculated as:

$$\Delta^2 CY(^{93m}\text{Y}_{\text{mod}}) = BR^2(^{93}\text{Sr} \rightarrow ^{93m}\text{Y}) \cdot \Delta^2 CY(^{93}\text{Sr}) + \Delta^2 IY(^{93m}\text{Y}) + \Delta^2 BR(^{93}\text{Sr} \rightarrow ^{93m}\text{Y}) \cdot CY^2(^{93}\text{Sr}) \quad (7)$$

Also in this mass chain, both decay branches out of ^{93}Sr reach the GS of ^{93}Y , due to the 100 % IT decay of ^{93m}Y . Therefore, the uncertainty on the BRs does not contribute to the final uncertainty of the GS yield, which instead becomes:

$$\Delta^2 CY(^{93g}\text{Y}_{\text{mod}}) = \Delta^2 CY(^{93}\text{Sr}) + \Delta^2 IY(^{93m}\text{Y}) + \Delta^2 IY(^{93g}\text{Y}) \quad (8)$$

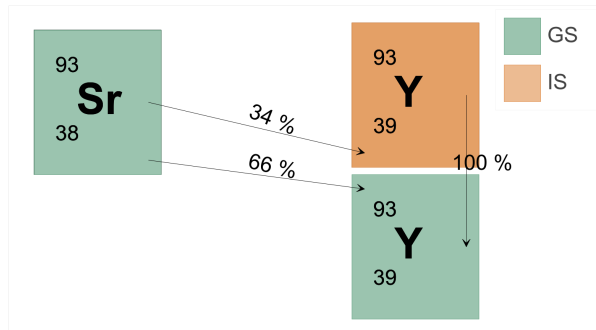


Figure 7. Decay scheme used to calculate CYs in mass chain 93. The arrows connect parent and daughter nuclei, and the value on the arrow represents the branching ratio (in %) of that particular decay mode.

A = 109 ($^{109m}/^{109}\text{Ru}$, $^{109m}/^{109}\text{Rh}$, ^{109g}Pd , ^{109g}Ag)

In A = 109, issues with the uncertainties being unreasonably large have been identified for ^{109}Ru and its decay products, as shown in Figure 8. The large uncertainty is, in part, due to the fact that isomers for ^{109}Ru and ^{109}Rh are assumed in the ENDF/B decay data sublibrary. Isomers for these nuclei have not been confirmed by nuclear structure or FY measurements; therefore, in this work these unconfirmed isomers were removed (reverting back to pre-ENDF/B-VI.8), and their IYs were reassigned to the GS:

$$IY(^{109m}\text{Ru}_{\text{mod}}) = 0 \quad (9a)$$

$$IY(^{109g}\text{Ru}_{\text{mod}}) = IY(^{109g}\text{Ru}) + IY(^{109m}\text{Ru}), \quad (9b)$$

and:

$$IY(^{109m}\text{Rh}_{\text{mod}}) = 0 \quad (10a)$$

$$IY(^{109g}\text{Rh}_{\text{mod}}) = IY(^{109g}\text{Rh}) + IY(^{109m}\text{Rh}) \quad (10b)$$

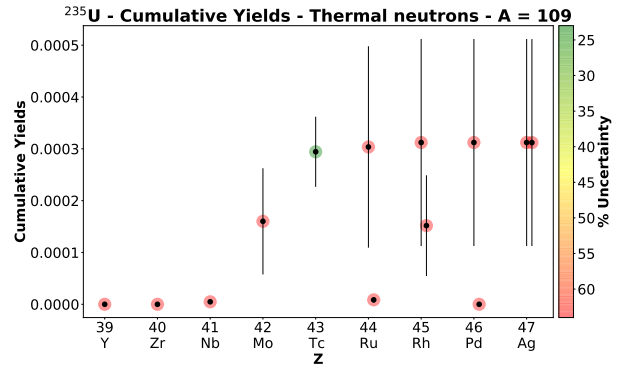


Figure 8. Cumulative FYs and relative uncertainties of fission products of A = 109, for the thermal fission of ^{235}U .

The relative uncertainty on the IYs was taken as 64 %, consistent with the values before applying the correction:

$$\Delta IY(^{109g}\text{Ru}_{\text{mod}}) = 0.64 \cdot IY(^{109g}\text{Ru}_{\text{mod}}) \quad (11a)$$

$$\Delta IY(^{109g}\text{Rh}_{\text{mod}}) = 0.64 \cdot IY(^{109g}\text{Rh}_{\text{mod}}) \quad (11b)$$

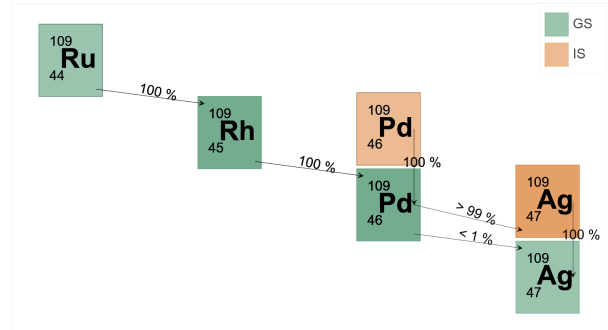


Figure 9. Decay scheme used to calculate CYs in mass chain 109. The arrows connect parent and daughter nuclei, and the value on the arrow represents the branching ratio (in %) of that particular decay mode.

With the new decay chain, shown in Figure 9, it was possible to calculate the uncertainties for each of the chain members:

$$CY(^{109m}\text{Ru}_{\text{mod}}) = 0 \quad (12a)$$

$$\Delta^2 CY(^{109g}\text{Ru}_{\text{mod}}) = \Delta^2 IY(^{109g}\text{Ru}_{\text{mod}}) + \Delta^2 CY(^{109g}\text{Tc}), \quad (12b)$$

$$CY(^{109m}\text{Rh}_{\text{mod}}) = 0 \quad (13a)$$

$$CY(^{109g}\text{Rh}_{\text{mod}}) = IY(^{109g}\text{Rh}_{\text{mod}}) + CY(^{109g}\text{Ru}_{\text{mod}}) \quad (13b)$$

$$\Delta^2 CY(^{109g}\text{Rh}_{\text{mod}}) = \Delta^2 IY(^{109g}\text{Rh}_{\text{mod}}) + \Delta^2 IY(^{109g}\text{Ru}_{\text{mod}}) + \Delta^2 CY(^{109g}\text{Tc}), \quad (13c)$$

$$\Delta^2 CY(^{109g}\text{Pd}_{\text{mod}}) = \Delta^2 IY(^{109m}\text{Pd}) + \Delta^2 IY(^{109g}\text{Pd}) + \Delta^2 CY(^{109g}\text{Rh}_{\text{mod}}) \quad (14)$$

and finally:

$$\Delta^2 CY(^{109m}\text{Ag}_{\text{mod}}) = BR^2(^{109}\text{Pd} \rightarrow ^{109m}\text{Ag}) \cdot \Delta^2 CY(^{109}\text{Pd}_{\text{mod}}) + \Delta^2 BR(^{109}\text{Pd} \rightarrow ^{109m}\text{Ag}) \cdot CY^2(^{109}\text{Pd}_{\text{mod}}) \quad (15a)$$

$$\Delta^2 CY(^{109g}\text{Ag}_{\text{mod}}) = \Delta^2 IY(^{109m}\text{Ag}) + \Delta^2 IY(^{109g}\text{Ag}) + \Delta^2 CY(^{109g}\text{Pd}_{\text{mod}}) \quad (15b)$$

A = 132 (^{132g}I)

The anomalous trend for the uncertainty of ¹³²I is shown in Figure 10, while the portion of the decay chain of interest for ¹³²I is shown in Figure 11.

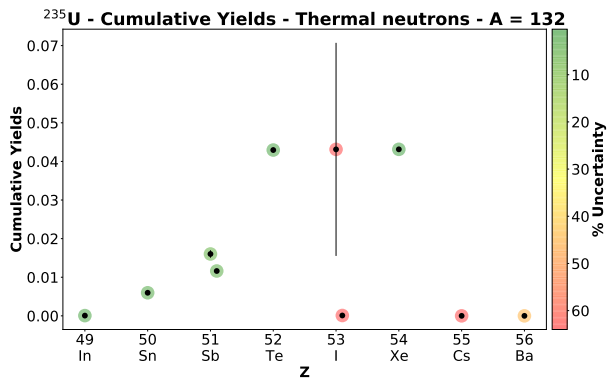


Figure 10. Cumulative FYs and relative uncertainties of fission products of A = 132, for the thermal fission of ²³⁵U.

The CY of ^{132g}I is the sum of the IY of ^{132g}I, a fraction of the IY of ^{132m}I ($BR(^{132m}\text{I} \rightarrow ^{132}\text{I}) = (86 \pm 2)\%$), and the full CY of ¹³²Te. The corresponding uncertainty can be calculated as:

$$\Delta^2 CY(^{132g}\text{I}_{\text{mod}}) = \Delta^2 IY(^{132g}\text{I}) + BR^2(^{132m}\text{I} \rightarrow ^{132g}\text{I}) \cdot \Delta^2 IY(^{132m}\text{I}) + \Delta^2 BR(^{132m}\text{I} \rightarrow ^{132g}\text{I}) \cdot IY^2(^{132m}\text{I}) + \Delta^2 CY(^{132}\text{Te}) \quad (16)$$

A = 133 (^{133g}I, ^{133g}Xe)

In A = 133, both ^{133g}I and ^{133g}Xe have anomalously large uncertainties, shown in Figure 12 and underwent the correction steps. The decay chain is shown in Figure 13, and the steps to calculate the new uncertainties are reported below:

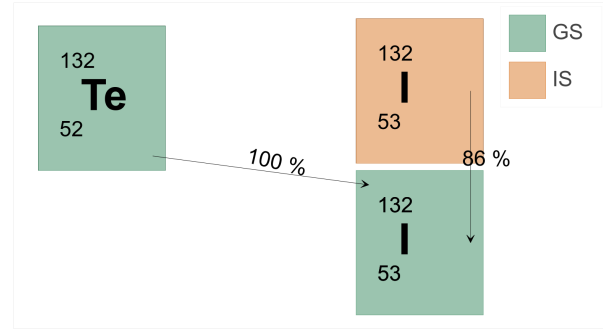


Figure 11. Decay scheme used to calculate CYs in mass chain 132. The arrows connect parent and daughter nuclei, and the value on the arrow represents the branching ratio (in %) of that particular decay mode.

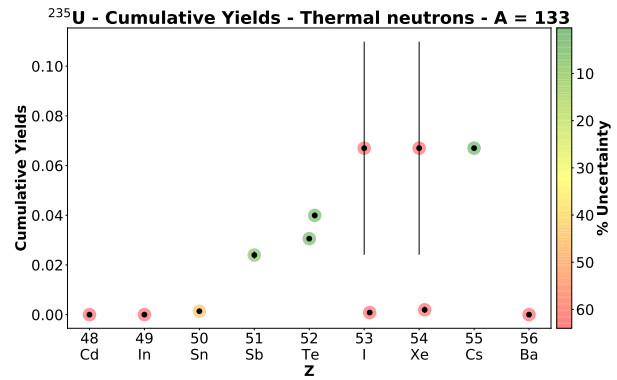


Figure 12. Cumulative FYs and relative uncertainties of fission products of A = 133, for the thermal fission of ²³⁵U.

$$\Delta^2 CY(^{133g}\text{I}_{\text{mod}}) = \Delta^2 IY(^{133g}\text{I}) + \Delta^2 IY(^{133m}\text{I}) + \Delta^2 CY(^{133m}\text{Te}) + \Delta^2 CY(^{133g}\text{Te}) \quad (17a)$$

$$\Delta^2 CY(^{133g}\text{Xe}_{\text{mod}}) = \Delta^2 IY(^{133g}\text{Xe}) + \Delta^2 IY(^{133m}\text{Xe}) + \Delta^2 CY(^{133g}\text{I}_{\text{mod}}) \quad (17b)$$

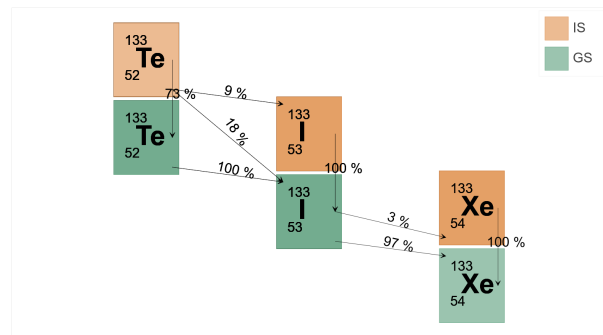


Figure 13. Decay scheme used to calculate CYs in mass chain 133. The arrows connect parent and daughter nuclei, and the value on the arrow represents the branching ratio (in %) of that particular decay mode.

A = 135 (^{135g}Cs, ^{135g}Ba)

The anomalous trend for the uncertainties of ^{135g}Cs and ^{135g}Ba is shown in Figure 14, while the decay chain of A = 135 is shown in Figure 15.

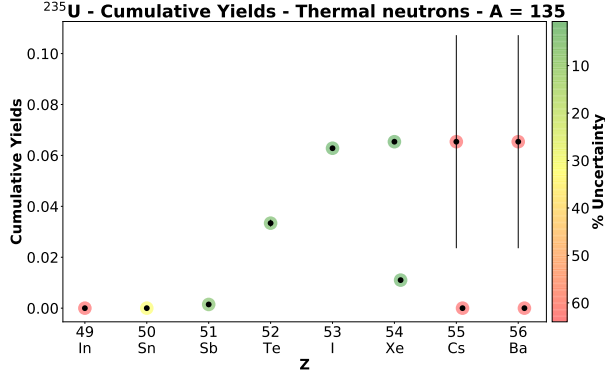


Figure 14. Cumulative FYs and relative uncertainties of fission products of A = 135, for the thermal fission of ²³⁵U.

The CY of ^{135g}Cs and ^{135g}Ba present an unreasonably large uncertainty, and were corrected as reported in the following equations:

$$\begin{aligned} \Delta^2 CY(^{135g}Cs_{\text{mod}}) &= \Delta^2 IY(^{135m}Cs) + \Delta^2 IY(^{135g}Cs) \\ &\quad + \Delta^2 CY(^{135g}Xe) \\ &\quad + BR^2(^{135m}Xe \rightarrow ^{135g}Cs) \cdot \Delta^2 CY(^{135m}Xe) \\ &\quad + \Delta^2 BR(^{135m}Xe \rightarrow ^{135g}Cs) \cdot CY^2(^{135m}Xe) \end{aligned} \quad (18a)$$

$$\begin{aligned} \Delta^2 CY(^{135g}Ba_{\text{mod}}) &= \Delta^2 IY(^{135m}Ba) + \Delta^2 IY(^{135g}Ba) \\ &\quad + \Delta^2 CY(^{135g}Cs_{\text{mod}}) \end{aligned} \quad (18b)$$

The uncertainty on the cumulative yield of ^{135g}Ba for ²³⁹Pu (n,f) at 500 keV, 2 MeV, and 14 MeV were recently revised contextually with the release of ENDF/B-VII.1 [5, 6], and were not further modified in this work.

A = 148 (^{148g}Pr)

The anomalous value for the uncertainty of ^{148g}Pr is shown in Figure 16, while the decay chain of A = 148 is shown in Figure 17. The yield of ^{148g}Pr was calculated according to the equation:

$$\Delta^2 CY(^{148g}Pr_{\text{mod}}) = \Delta^2 IY(^{148g}Pr) + \Delta^2 CY(^{148}Ce) \quad (19)$$

Validation

The newly corrected uncertainties can be validated by looking at integral quantities and their uncertainties.

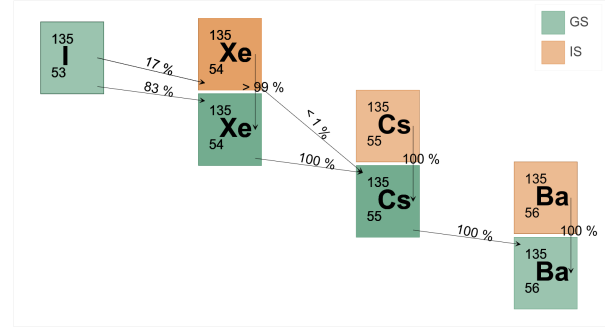


Figure 15. Decay scheme used to calculate CYs in mass chain 135. The arrows connect parent and daughter nuclei, and the value on the arrow represents the branching ratio (in %) of that particular decay mode.

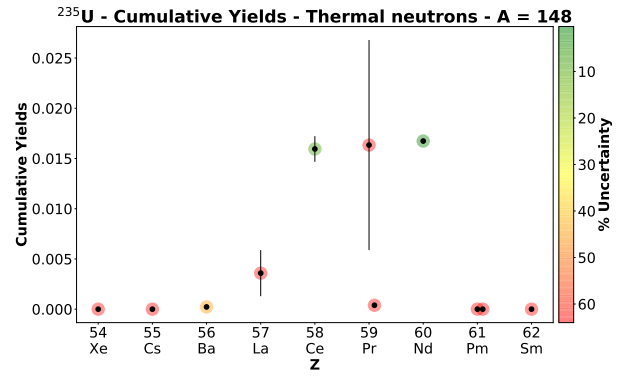


Figure 16. Cumulative FYs and relative uncertainties of fission products of A = 148, for the thermal fission of ²³⁵U.

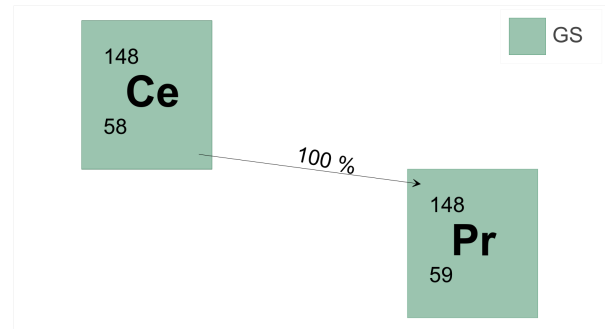


Figure 17. Decay scheme used to calculate CYs in mass chain 148. The arrows connect parent and daughter nuclei, and the value on the arrow represents the branching ratio (in %) of that particular decay mode.

One of them is the total energy released in neutron-induced fission which, including all the beta-delayed terms, is given by:

$$E = M_t - (\bar{\nu}_t - 1)M_n - \sum CY_k M_k, \quad (20)$$

where the sum is performed over the most neutron-rich stable nuclides for each atomic mass number value A populated in the fission process.

Additionally,

- (i) M_t and M_n are the target and neutron mass excess values, respectively;
- (ii) $\bar{\nu}_t$ is the total neutron multiplicity, prompt plus delayed, known in technical parlance as *total nu-bar*;
- (iii) CY_k are cumulative FYs, which in this case correspond to chain yields; and
- (iv) M_k are the corresponding mass excess values. The 2016 Atomic Mass Evaluation [7] are the source of all mass excess values used in this work.

Of interest is the following term:

$$Y = \sum CY_k M_k, \quad (21)$$

and in particular its uncertainty, which in the present work is calculated using the Monte Carlo scheme developed by Kopeikin *et al.* [8].

Table 1 shows the results of our Y and ΔY calculations for the four major actinides ^{235}U , ^{238}U , ^{239}Pu and ^{241}Pu , compared with those from Kopeikin *et al.* [8], who used CYs from the England and Rider evaluation [2], as well as those obtained from the JEFF-3.3 library [3].

The large ΔY values observed when using ENDF/B-VIII.0 yields are due mainly to the anomalously large ^{90}Sr , ^{109}Ag and ^{135}Cs CY uncertainties; once these uncertainties are corrected as described earlier, which correspond to the values in the row labeled as “ENDF/B-VIII.0 Mod.”, we obtain ΔY values that are in close agreement with those obtained by Kopeikin *et al.* [8] and considerably closer, albeit smaller, than those obtained using JEFF-3.3.

Acknowledgements

This work was sponsored by the Office of Nuclear Physics, Office of Science of the U.S. Department of Energy, under Contract No. DE-SC0012704, and supported by the Office of Defense Nuclear Nonproliferation Research & Development (DNN R&D), National Nuclear Security Administration, U.S. Department of Energy.

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Library	^{235}U	^{238}U	^{239}Pu	^{241}Pu
JEFF-3.3	-173.155 ± 0.076	-173.047 ± 0.298	-173.585 ± 0.115	-173.523 ± 0.240
ENDF/B-VIII.0	-173.125 ± 0.943	-173.225 ± 0.585	-173.676 ± 0.417	-173.552 ± 0.410
ENDF/B-VIII.0 Mod.	-173.137 ± 0.039	-173.218 ± 0.081	-173.694 ± 0.073	-173.547 ± 0.092
Kopeikin [8] (England & Rider)	-173.43 ± 0.05	-173.39 ± 0.10	-173.87 ± 0.07	-173.82 ± 0.10

Table 1. Y and ΔY values, calculated with Eqn. 21.

Tabulated data

Table 2. Corrections to the NFY sublibrary.

²²⁷ Th		En = 0.0253 eV		
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
⁹⁰ gY	ΔCY	4.9171E-02	8.4512E-03	5.8182E+00
⁹⁰ gZr	ΔCY	4.9171E-02	8.4512E-03	5.8182E+00
⁹¹ gY	ΔCY	3.9469E-02	6.7815E-03	5.8201E+00
⁹¹ mY	ΔCY	2.2891E-02	4.2312E-03	5.4102E+00
⁹³ gY	ΔCY	2.7989E-02	9.8172E-03	2.8510E+00
⁹³ mY	ΔCY	9.7930E-03	3.4885E-03	2.8072E+00
¹⁰⁹ gRu	IY	7.5640E-05	1.5128E-04	5.0000E-01
¹⁰⁹ gRu	ΔIY	4.8410E-05	9.6819E-05	5.0000E-01
¹⁰⁹ gRu	CY	2.6013E-04	3.3563E-04	7.7505E-01
¹⁰⁹ gRu	ΔCY	1.6648E-04	1.5262E-04	1.0908E+00
¹⁰⁹ gRh	IY	8.7900E-07	1.7580E-06	5.0000E-01
¹⁰⁹ gRh	ΔIY	5.6256E-07	1.1251E-06	5.0000E-01
¹⁰⁹ gRh	CY	3.3753E-04	3.3753E-04	1.0000E+00
¹⁰⁹ gRh	ΔCY	2.1602E-04	2.1602E-04	1.0000E+00
¹⁰⁹ gPd	ΔCY	2.1602E-04	1.5263E-04	1.4153E+00
¹⁰⁹ gAg	ΔCY	2.1602E-04	1.5263E-04	1.4153E+00
¹⁰⁹ mAg	ΔCY	2.1592E-04	1.5255E-04	1.4154E+00
¹³² gI	ΔCY	2.1649E-02	2.0130E-03	1.0755E+01
¹³³ gI	ΔCY	3.0864E-02	8.1877E-03	3.7696E+00
¹³³ gXe	ΔCY	3.0970E-02	8.1297E-03	3.8095E+00
¹³⁵ gCs	ΔCY	4.3371E-02	1.0836E-02	4.0023E+00
¹³⁵ gBa	ΔCY	4.3371E-02	1.0836E-02	4.0023E+00
¹⁴⁸ gPr	ΔCY	1.9019E-04	1.8122E-04	1.0495E+00

²²⁹ Th		En = 0.0253 eV		
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
⁹⁰ gY	ΔCY	5.3588E-02	3.3492E-03	1.6000E+01
⁹⁰ gZr	ΔCY	5.3588E-02	3.3492E-03	1.6000E+01
⁹¹ gY	ΔCY	4.2197E-02	1.8459E-03	2.2861E+01
⁹¹ mY	ΔCY	2.4474E-02	1.8148E-03	1.3486E+01
⁹³ gY	ΔCY	3.0999E-02	1.9360E-03	1.6012E+01
⁹³ mY	ΔCY	1.0796E-02	1.2176E-03	8.8662E+00
¹⁰⁹ gRu	IY	2.5380E-05	5.0760E-05	5.0000E-01
¹⁰⁹ gRu	ΔIY	1.6243E-05	3.2487E-05	5.0000E-01
¹⁰⁹ gRu	CY	1.0323E-04	1.2849E-04	8.0341E-01
¹⁰⁹ gRu	ΔCY	6.6067E-05	5.9415E-05	1.1120E+00
¹⁰⁹ gRh	IY	1.8200E-07	3.6400E-07	5.0000E-01
¹⁰⁹ gRh	ΔIY	1.1648E-07	2.3296E-07	5.0000E-01
¹⁰⁹ gRh	CY	1.2898E-04	1.2898E-04	1.0000E+00
¹⁰⁹ gRh	ΔCY	8.2544E-05	8.2544E-05	1.0000E+00
¹⁰⁹ gPd	ΔCY	8.2544E-05	5.9416E-05	1.3893E+00
¹⁰⁹ gAg	ΔCY	8.2548E-05	5.9416E-05	1.3893E+00
¹⁰⁹ mAg	ΔCY	8.2505E-05	5.9386E-05	1.3893E+00
¹³² gI	ΔCY	7.7010E-03	3.3684E-04	2.2863E+01
¹³³ gI	ΔCY	1.8963E-02	2.6921E-03	7.0441E+00
¹³³ gXe	ΔCY	1.8985E-02	2.8084E-03	6.7602E+00
¹³⁵ gCs	ΔCY	3.7165E-02	1.6260E-03	2.2856E+01
¹³⁵ gBa	ΔCY	3.7165E-02	1.6260E-03	2.2856E+01
¹⁴⁸ gPr	ΔCY	6.3757E-03	1.0805E-03	5.9008E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²³² Th En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	5.0713E-02	3.1696E-03	1.6000E+01
^{90g} Zr	ΔCY	5.0713E-02	3.1696E-03	1.6000E+01
^{91g} Y	ΔCY	4.7128E-02	1.4728E-03	3.2000E+01
^{91m} Y	ΔCY	2.7334E-02	1.8391E-03	1.4863E+01
^{93g} Y	ΔCY	4.2862E-02	5.3542E-03	8.0053E+00
^{93m} Y	ΔCY	1.4835E-02	2.3083E-03	6.4265E+00
^{109g} Ru	IY	7.9548E-06	1.5910E-05	5.0000E-01
^{109g} Ru	ΔIY	5.0911E-06	1.0182E-05	5.0000E-01
^{109g} Ru	CY	6.5416E-04	6.5898E-04	9.9268E-01
^{109g} Ru	ΔCY	4.1866E-04	4.1169E-04	1.0169E+00
^{109g} Rh	IY	1.3000E-08	2.5999E-08	5.0000E-01
^{109g} Rh	ΔIY	8.3198E-09	1.6640E-08	5.0000E-01
^{109g} Rh	CY	6.6214E-04	6.6214E-04	1.0000E+00
^{109g} Rh	ΔCY	4.2377E-04	4.2377E-04	1.0000E+00
^{109g} Pd	ΔCY	4.2377E-04	4.1169E-04	1.0293E+00
^{109g} Ag	ΔCY	4.2377E-04	4.1169E-04	1.0293E+00
^{109m} Ag	ΔCY	4.2357E-04	4.1149E-04	1.0294E+00
^{132g} I	ΔCY	1.8959E-02	7.0643E-04	2.6838E+01
^{133g} I	ΔCY	2.5885E-02	8.3592E-03	3.0966E+00
^{133g} Xe	ΔCY	2.5885E-02	8.2349E-03	3.1433E+00
^{135g} Cs	ΔCY	3.5382E-02	1.1060E-03	3.1992E+01
^{135g} Ba	ΔCY	3.5382E-02	1.1060E-03	3.1992E+01
^{148g} Pr	ΔCY	1.2812E-02	1.5990E-03	8.0125E+00

²³² Th En = 14.0 MeV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	3.8942E-02	4.8678E-03	8.0000E+00
^{90g} Zr	ΔCY	3.8942E-02	4.8678E-03	8.0000E+00
^{91g} Y	ΔCY	3.8347E-02	2.3966E-03	1.6000E+01
^{91m} Y	ΔCY	2.2241E-02	1.9348E-03	1.1495E+01
^{93g} Y	ΔCY	3.5736E-02	3.3411E-03	1.0696E+01
^{93m} Y	ΔCY	1.2381E-02	1.6354E-03	7.5707E+00
^{109g} Ru	IY	6.5573E-04	1.3115E-03	5.0000E-01
^{109g} Ru	ΔIY	4.1967E-04	8.3933E-04	5.0000E-01
^{109g} Ru	CY	1.3459E-02	1.4061E-02	9.5721E-01
^{109g} Ru	ΔCY	8.6141E-03	5.7984E-03	1.4856E+00
^{109g} Rh	IY	1.0120E-05	2.0240E-05	5.0000E-01
^{109g} Rh	ΔIY	6.4768E-06	1.2954E-05	5.0000E-01
^{109g} Rh	CY	1.4136E-02	1.4136E-02	1.0000E+00
^{109g} Rh	ΔCY	9.0467E-03	9.0467E-03	1.0000E+00
^{109g} Pd	ΔCY	9.0467E-03	5.7985E-03	1.5602E+00
^{109g} Ag	ΔCY	9.0467E-03	5.7985E-03	1.5602E+00
^{109m} Ag	ΔCY	9.0424E-03	5.7956E-03	1.5602E+00
^{132g} I	ΔCY	2.1890E-02	1.4224E-03	1.5390E+01
^{133g} I	ΔCY	2.9837E-02	1.0973E-02	2.7192E+00
^{133g} Xe	ΔCY	2.9841E-02	1.0774E-02	2.7696E+00
^{135g} Cs	ΔCY	3.3580E-02	2.0970E-03	1.6014E+01
^{135g} Ba	ΔCY	3.3580E-02	2.0970E-03	1.6014E+01
^{148g} Pr	ΔCY	6.6502E-03	3.2372E-03	2.0543E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²³¹ Pa En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	4.3840E-02	1.0959E-02	4.0003E+00
^{90g} Zr	ΔCY	4.3840E-02	1.0959E-02	4.0003E+00
^{91g} Y	ΔCY	4.1273E-02	5.1548E-03	8.0068E+00
^{91m} Y	ΔCY	2.3936E-02	3.3601E-03	7.1234E+00
^{93g} Y	ΔCY	4.2968E-02	1.0370E-02	4.1437E+00
^{93m} Y	ΔCY	1.5145E-02	3.8763E-03	3.9071E+00
^{109g} Ru	IY	1.4419E-04	2.8838E-04	5.0000E-01
^{109g} Ru	ΔIY	9.2282E-05	1.8456E-04	5.0000E-01
^{109g} Ru	CY	6.3876E-04	7.8213E-04	8.1669E-01
^{109g} Ru	ΔCY	4.0881E-04	3.6595E-04	1.1171E+00
^{109g} Rh	IY	6.7600E-06	1.3520E-05	5.0000E-01
^{109g} Rh	ΔIY	4.3264E-06	8.6528E-06	5.0000E-01
^{109g} Rh	CY	7.9647E-04	7.9647E-04	1.0000E+00
^{109g} Rh	ΔCY	5.0974E-04	5.0974E-04	1.0000E+00
^{109g} Pd	ΔCY	5.0976E-04	3.6605E-04	1.3926E+00
^{109g} Ag	ΔCY	5.0977E-04	3.6605E-04	1.3926E+00
^{109m} Ag	ΔCY	5.0952E-04	3.6587E-04	1.3926E+00
^{132g} I	ΔCY	2.2886E-02	2.1388E-03	1.0701E+01
^{133g} I	ΔCY	3.2520E-02	9.4637E-03	3.4363E+00
^{133g} Xe	ΔCY	3.2594E-02	9.3593E-03	3.4825E+00
^{135g} Cs	ΔCY	4.2707E-02	4.0002E-03	1.0676E+01
^{135g} Ba	ΔCY	4.2707E-02	4.0002E-03	1.0676E+01
^{148g} Pr	ΔCY	8.8722E-03	5.5915E-03	1.5867E+00

²³² U En = 0.0253 eV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	4.2236E-02	1.0551E-02	4.0032E+00
^{90g} Zr	ΔCY	4.2236E-02	1.0551E-02	4.0032E+00
^{91g} Y	ΔCY	4.5816E-02	2.8524E-03	1.6062E+01
^{91m} Y	ΔCY	2.6547E-02	2.3010E-03	1.1537E+01
^{93g} Y	ΔCY	4.6537E-02	5.3292E-03	8.7323E+00
^{93m} Y	ΔCY	1.6898E-02	3.2065E-03	5.2698E+00
^{109g} Ru	IY	3.0179E-05	6.0358E-05	5.0000E-01
^{109g} Ru	ΔIY	1.9315E-05	3.8629E-05	5.0000E-01
^{109g} Ru	CY	4.6401E-05	7.6581E-05	6.0592E-01
^{109g} Ru	ΔCY	2.9697E-05	4.0000E-05	7.4242E-01
^{109g} Rh	IY	6.4909E-06	1.2982E-05	5.0000E-01
^{109g} Rh	ΔIY	4.1542E-06	8.3084E-06	5.0000E-01
^{109g} Rh	CY	8.9563E-05	8.9563E-05	1.0000E+00
^{109g} Rh	ΔCY	5.7320E-05	5.7320E-05	1.0000E+00
^{109g} Pd	ΔCY	5.7582E-05	4.0854E-05	1.4094E+00
^{109g} Ag	ΔCY	5.7582E-05	4.0854E-05	1.4095E+00
^{109m} Ag	ΔCY	5.7554E-05	4.0834E-05	1.4095E+00
^{132g} I	ΔCY	3.2729E-02	3.0000E-03	1.0910E+01
^{133g} I	ΔCY	3.6343E-02	1.1649E-02	3.1197E+00
^{133g} Xe	ΔCY	3.7147E-02	1.1547E-02	3.2170E+00
^{135g} Cs	ΔCY	3.4047E-02	2.1236E-03	1.6033E+01
^{135g} Ba	ΔCY	3.4049E-02	2.1236E-03	1.6034E+01
^{148g} Pr	ΔCY	4.1498E-03	3.1291E-03	1.3262E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²³³ U En = 0.0253 eV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	4.3449E-02	1.3578E-03	3.2001E+01
^{90g} Zr	ΔCY	4.3449E-02	1.3578E-03	3.2001E+01
^{91g} Y	ΔCY	4.1509E-02	1.2967E-03	3.2012E+01
^{91m} Y	ΔCY	2.4074E-02	1.6191E-03	1.4869E+01
^{93g} Y	ΔCY	4.4657E-02	2.0853E-02	2.1415E+00
^{93m} Y	ΔCY	1.5943E-02	7.3939E-03	2.1563E+00
^{109g} Ru	IY	5.9238E-05	1.1848E-04	5.0000E-01
^{109g} Ru	ΔIY	3.7913E-05	7.5825E-05	5.0000E-01
^{109g} Ru	CY	3.3269E-04	3.9155E-04	8.4968E-01
^{109g} Ru	ΔCY	2.1292E-04	1.9051E-04	1.1177E+00
^{109g} Rh	IY	1.0500E-06	2.0999E-06	5.0000E-01
^{109g} Rh	ΔIY	6.7198E-07	1.3440E-06	5.0000E-01
^{109g} Rh	CY	3.9403E-04	3.9403E-04	1.0000E+00
^{109g} Rh	ΔCY	2.5218E-04	2.5218E-04	1.0000E+00
^{109g} Pd	ΔCY	2.5218E-04	1.9051E-04	1.3237E+00
^{109g} Ag	ΔCY	2.5219E-04	1.9051E-04	1.3237E+00
^{109m} Ag	ΔCY	2.5206E-04	1.9042E-04	1.3237E+00
^{132g} I	ΔCY	3.1614E-02	1.5621E-03	2.0238E+01
^{133g} I	ΔCY	3.7724E-02	6.1710E-03	6.1131E+00
^{133g} Xe	ΔCY	3.8082E-02	6.3759E-03	5.9729E+00
^{135g} Cs	ΔCY	4.0096E-02	1.2531E-03	3.1999E+01
^{135g} Ba	ΔCY	4.0096E-02	1.2531E-03	3.1999E+01
^{148g} Pr	ΔCY	7.8062E-03	1.8934E-03	4.1228E+00

²³³ U En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	4.0877E-02	1.2773E-03	3.2002E+01
^{90g} Zr	ΔCY	4.0877E-02	1.2773E-03	3.2002E+01
^{91g} Y	ΔCY	4.1275E-02	2.5768E-03	1.6018E+01
^{91m} Y	ΔCY	2.3936E-02	2.0803E-03	1.1506E+01
^{93g} Y	ΔCY	4.4386E-02	5.5019E-03	8.0673E+00
^{93m} Y	ΔCY	1.5704E-02	2.5339E-03	6.1975E+00
^{109g} Ru	IY	1.5997E-04	3.1993E-04	5.0000E-01
^{109g} Ru	ΔIY	1.0238E-04	2.0476E-04	5.0000E-01
^{109g} Ru	CY	6.8512E-04	8.4447E-04	8.1131E-01
^{109g} Ru	ΔCY	4.3848E-04	3.9322E-04	1.1151E+00
^{109g} Rh	IY	3.9100E-06	7.8200E-06	5.0000E-01
^{109g} Rh	ΔIY	2.5024E-06	5.0048E-06	5.0000E-01
^{109g} Rh	CY	8.5291E-04	8.5291E-04	1.0000E+00
^{109g} Rh	ΔCY	5.4586E-04	5.4586E-04	1.0000E+00
^{109g} Pd	ΔCY	5.4588E-04	3.9325E-04	1.3881E+00
^{109g} Ag	ΔCY	5.4587E-04	3.9325E-04	1.3881E+00
^{109m} Ag	ΔCY	5.4561E-04	3.9306E-04	1.3881E+00
^{132g} I	ΔCY	3.2058E-02	2.4999E-03	1.2824E+01
^{133g} I	ΔCY	3.8453E-02	9.7477E-03	3.9449E+00
^{133g} Xe	ΔCY	3.8643E-02	9.7047E-03	3.9819E+00
^{135g} Cs	ΔCY	4.1108E-02	1.2844E-03	3.2005E+01
^{135g} Ba	ΔCY	4.1108E-02	1.2844E-03	3.2005E+01
^{148g} Pr	ΔCY	6.8909E-03	3.1765E-03	2.1694E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²³³ U En = 14.0 MeV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	3.0452E-02	7.6045E-03	4.0045E+00
^{90g} Zr	ΔCY	3.0452E-02	7.6045E-03	4.0045E+00
^{91g} Y	ΔCY	3.3141E-02	3.0890E-03	1.0729E+01
^{91m} Y	ΔCY	1.9202E-02	2.1485E-03	8.9374E+00
^{93g} Y	ΔCY	3.4308E-02	8.0934E-03	4.2390E+00
^{93m} Y	ΔCY	1.2526E-02	3.4793E-03	3.6002E+00
^{109g} Ru	IY	3.5925E-03	7.1849E-03	5.0000E-01
^{109g} Ru	ΔIY	2.2992E-03	4.5984E-03	5.0000E-01
^{109g} Ru	CY	1.0263E-02	1.3843E-02	7.4140E-01
^{109g} Ru	ΔCY	6.5683E-03	5.4882E-03	1.1968E+00
^{109g} Rh	IY	5.7894E-04	1.1579E-03	5.0000E-01
^{109g} Rh	ΔIY	3.7052E-04	7.4104E-04	5.0000E-01
^{109g} Rh	CY	1.5013E-02	1.5013E-02	1.0000E+00
^{109g} Rh	ΔCY	9.6085E-03	9.6085E-03	1.0000E+00
^{109g} Pd	ΔCY	9.6227E-03	5.5381E-03	1.7376E+00
^{109g} Ag	ΔCY	9.6227E-03	5.5381E-03	1.7376E+00
^{109m} Ag	ΔCY	9.6180E-03	5.5353E-03	1.7376E+00
^{132g} I	ΔCY	2.4892E-02	3.5573E-03	6.9975E+00
^{133g} I	ΔCY	2.7670E-02	1.0347E-02	2.6742E+00
^{133g} Xe	ΔCY	2.9165E-02	1.0328E-02	2.8238E+00
^{135g} Cs	ΔCY	3.2844E-02	4.0434E-03	8.1229E+00
^{135g} Ba	ΔCY	3.2855E-02	4.0434E-03	8.1256E+00
^{148g} Pr	ΔCY	4.1177E-03	3.1426E-03	1.3103E+00

²³⁴ U En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	3.8649E-02	9.6619E-03	4.0001E+00
^{90g} Zr	ΔCY	3.8649E-02	9.6619E-03	4.0001E+00
^{91g} Y	ΔCY	4.1120E-02	1.0274E-02	4.0024E+00
^{91m} Y	ΔCY	2.3848E-02	6.2341E-03	3.8254E+00
^{93g} Y	ΔCY	3.9390E-02	6.6162E-03	5.9535E+00
^{93m} Y	ΔCY	1.3818E-02	2.6414E-03	5.2313E+00
^{109g} Ru	IY	1.0273E-04	2.0547E-04	5.0000E-01
^{109g} Ru	ΔIY	6.5750E-05	1.3150E-04	5.0000E-01
^{109g} Ru	CY	1.1233E-03	1.2242E-03	9.1763E-01
^{109g} Ru	ΔCY	7.1892E-04	6.6509E-04	1.0809E+00
^{109g} Rh	IY	1.0200E-06	2.0400E-06	5.0000E-01
^{109g} Rh	ΔIY	6.5280E-07	1.3056E-06	5.0000E-01
^{109g} Rh	CY	1.2281E-03	1.2281E-03	1.0000E+00
^{109g} Rh	ΔCY	7.8598E-04	7.8598E-04	1.0000E+00
^{109g} Pd	ΔCY	7.8598E-04	6.6509E-04	1.1818E+00
^{109g} Ag	ΔCY	7.8598E-04	6.6509E-04	1.1818E+00
^{109m} Ag	ΔCY	7.8560E-04	6.6476E-04	1.1818E+00
^{132g} I	ΔCY	2.7888E-02	6.8436E-03	4.0750E+00
^{133g} I	ΔCY	4.1287E-02	1.0171E-02	4.0591E+00
^{133g} Xe	ΔCY	4.1370E-02	1.0130E-02	4.0841E+00
^{135g} Cs	ΔCY	3.5724E-02	6.1354E-03	5.8226E+00
^{135g} Ba	ΔCY	3.5724E-02	6.1354E-03	5.8226E+00
^{148g} Pr	ΔCY	8.4470E-03	2.8735E-03	2.9396E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²³⁴ U En = 14.0 MeV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	3.0125E-02	7.5237E-03	4.0041E+00
^{90g} Zr	ΔCY	3.0125E-02	7.5237E-03	4.0041E+00
^{91g} Y	ΔCY	3.2018E-02	1.1423E-02	2.8029E+00
^{91m} Y	ΔCY	1.8552E-02	6.8393E-03	2.7125E+00
^{93g} Y	ΔCY	3.2179E-02	7.5856E-03	4.2421E+00
^{93m} Y	ΔCY	1.1709E-02	3.2045E-03	3.6538E+00
^{109g} Ru	IY	2.6368E-03	5.2737E-03	5.0000E-01
^{109g} Ru	ΔIY	1.6876E-03	3.3752E-03	5.0000E-01
^{109g} Ru	CY	9.3463E-03	1.1962E-02	7.8134E-01
^{109g} Ru	ΔCY	5.9816E-03	4.5222E-03	1.3227E+00
^{109g} Rh	IY	2.9878E-04	5.9756E-04	5.0000E-01
^{109g} Rh	ΔIY	1.9122E-04	3.8244E-04	5.0000E-01
^{109g} Rh	CY	1.2581E-02	1.2581E-02	1.0000E+00
^{109g} Rh	ΔCY	8.0517E-03	8.0517E-03	1.0000E+00
^{109g} Pd	ΔCY	8.0564E-03	4.5383E-03	1.7752E+00
^{109g} Ag	ΔCY	8.0564E-03	4.5383E-03	1.7752E+00
^{109m} Ag	ΔCY	8.0525E-03	4.5360E-03	1.7752E+00
^{132g} I	ΔCY	3.2945E-02	6.3927E-03	5.1535E+00
^{133g} I	ΔCY	3.0624E-02	1.1243E-02	2.7240E+00
^{133g} Xe	ΔCY	3.2052E-02	1.1197E-02	2.8625E+00
^{135g} Cs	ΔCY	3.4935E-02	8.5281E-03	4.0965E+00
^{135g} Ba	ΔCY	3.4943E-02	8.5281E-03	4.0974E+00
^{148g} Pr	ΔCY	5.0798E-03	2.9508E-03	1.7215E+00

²³⁵ U En = 0.0253 eV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	3.7004E-02	5.7819E-04	6.4000E+01
^{90g} Zr	ΔCY	3.7004E-02	5.7819E-04	6.4000E+01
^{91g} Y	ΔCY	3.7298E-02	5.8275E-04	6.4003E+01
^{91m} Y	ΔCY	2.1633E-02	1.3275E-03	1.6296E+01
^{93g} Y	ΔCY	4.0615E-02	7.9430E-04	5.1134E+01
^{93m} Y	ΔCY	1.4160E-02	1.3719E-03	1.0321E+01
^{109g} Ru	IY	8.5644E-06	1.7129E-05	5.0000E-01
^{109g} Ru	ΔIY	5.4812E-06	1.0962E-05	5.0000E-01
^{109g} Ru	CY	3.0359E-04	3.1146E-04	9.7475E-01
^{109g} Ru	ΔCY	1.9430E-04	6.8578E-05	2.8333E+00
^{109g} Rh	IY	2.0599E-08	4.1197E-08	5.0000E-01
^{109g} Rh	ΔIY	1.3183E-08	2.6366E-08	5.0000E-01
^{109g} Rh	CY	3.1220E-04	3.1220E-04	1.0000E+00
^{109g} Rh	ΔCY	1.9981E-04	1.9981E-04	1.0000E+00
^{109g} Pd	ΔCY	1.9981E-04	6.8578E-05	2.9136E+00
^{109g} Ag	ΔCY	1.9981E-04	6.8578E-05	2.9137E+00
^{109m} Ag	ΔCY	1.9971E-04	6.8543E-05	2.9137E+00
^{132g} I	ΔCY	2.7596E-02	6.0619E-04	4.5523E+01
^{133g} I	ΔCY	4.2858E-02	1.5940E-03	2.6888E+01
^{133g} Xe	ΔCY	4.2874E-02	2.7785E-03	1.5430E+01
^{135g} Cs	ΔCY	4.1849E-02	4.5889E-04	9.1197E+01
^{135g} Ba	ΔCY	4.1849E-02	4.5889E-04	9.1197E+01
^{148g} Pr	ΔCY	1.0456E-02	1.2999E-03	8.0435E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²³⁵ U En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	3.4976E-02	3.8255E-04	9.1429E+01
^{90g} Zr	ΔCY	3.4976E-02	3.8255E-04	9.1429E+01
^{91g} Y	ΔCY	3.6694E-02	1.1466E-03	3.2001E+01
^{91m} Y	ΔCY	2.1282E-02	1.4318E-03	1.4864E+01
^{93g} Y	ΔCY	4.0025E-02	2.5936E-03	1.5432E+01
^{93m} Y	ΔCY	1.4053E-02	1.6538E-03	8.4974E+00
^{109g} Ru	IY	2.0000E-05	4.0000E-05	5.0000E-01
^{109g} Ru	ΔIY	1.2800E-05	2.5600E-05	5.0000E-01
^{109g} Ru	CY	7.9534E-04	8.1344E-04	9.7775E-01
^{109g} Ru	ΔCY	5.0902E-04	4.9567E-04	1.0269E+00
^{109g} Rh	IY	5.2499E-08	1.0500E-07	5.0000E-01
^{109g} Rh	ΔIY	3.3600E-08	6.7199E-08	5.0000E-01
^{109g} Rh	CY	8.1545E-04	8.1545E-04	1.0000E+00
^{109g} Rh	ΔCY	5.2189E-04	5.2189E-04	1.0000E+00
^{109g} Pd	ΔCY	5.2189E-04	4.9567E-04	1.0529E+00
^{109g} Ag	ΔCY	5.2189E-04	4.9567E-04	1.0529E+00
^{109m} Ag	ΔCY	5.2164E-04	4.9542E-04	1.0529E+00
^{132g} I	ΔCY	2.9890E-02	9.3316E-04	3.2031E+01
^{133g} I	ΔCY	4.2995E-02	9.4888E-03	4.5311E+00
^{133g} Xe	ΔCY	4.3031E-02	9.5020E-03	4.5287E+00
^{135g} Cs	ΔCY	4.2248E-02	6.6099E-04	6.3916E+01
^{135g} Ba	ΔCY	4.2248E-02	6.6099E-04	6.3916E+01
^{148g} Pr	ΔCY	1.0592E-02	1.3138E-03	8.0617E+00

²³⁵ U En = 14.0 MeV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	2.9399E-02	1.8371E-03	1.6003E+01
^{90g} Zr	ΔCY	2.9399E-02	1.8371E-03	1.6004E+01
^{91g} Y	ΔCY	3.0865E-02	1.9259E-03	1.6027E+01
^{91m} Y	ΔCY	1.7897E-02	1.5547E-03	1.1511E+01
^{93g} Y	ΔCY	3.3212E-02	5.5468E-03	5.9875E+00
^{93m} Y	ΔCY	1.1783E-02	2.3110E-03	5.0986E+00
^{109g} Ru	IY	2.1188E-03	4.2376E-03	5.0000E-01
^{109g} Ru	ΔIY	1.3560E-03	2.7120E-03	5.0000E-01
^{109g} Ru	CY	9.2308E-03	1.1330E-02	8.1472E-01
^{109g} Ru	ΔCY	5.9077E-03	4.1883E-03	1.4105E+00
^{109g} Rh	IY	1.8841E-04	3.7682E-04	5.0000E-01
^{109g} Rh	ΔIY	1.2058E-04	2.4116E-04	5.0000E-01
^{109g} Rh	CY	1.1726E-02	1.1726E-02	1.0000E+00
^{109g} Rh	ΔCY	7.5049E-03	7.5049E-03	1.0000E+00
^{109g} Pd	ΔCY	7.5072E-03	4.1952E-03	1.7895E+00
^{109g} Ag	ΔCY	7.5072E-03	4.1952E-03	1.7895E+00
^{109m} Ag	ΔCY	7.5036E-03	4.1931E-03	1.7895E+00
^{132g} I	ΔCY	3.0835E-02	3.6759E-03	8.3883E+00
^{133g} I	ΔCY	3.4280E-02	1.0662E-02	3.2150E+00
^{133g} Xe	ΔCY	3.5380E-02	1.0641E-02	3.3249E+00
^{135g} Cs	ΔCY	3.6664E-02	3.4123E-03	1.0745E+01
^{135g} Ba	ΔCY	3.6666E-02	3.4123E-03	1.0745E+01
^{148g} Pr	ΔCY	6.3214E-03	3.8030E-03	1.6622E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²³⁶ U En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	3.0253E-02	7.5633E-03	4.0000E+00
^{90g} Zr	ΔCY	3.0253E-02	7.5633E-03	4.0000E+00
^{91g} Y	ΔCY	3.5207E-02	2.2004E-03	1.6001E+01
^{91m} Y	ΔCY	2.0420E-02	1.7764E-03	1.1495E+01
^{93g} Y	ΔCY	3.5394E-02	3.3040E-03	1.0712E+01
^{93m} Y	ΔCY	1.2274E-02	1.6181E-03	7.5853E+00
^{109g} Ru	IY	5.1403E-06	1.0281E-05	5.0000E-01
^{109g} Ru	ΔIY	3.2898E-06	6.5795E-06	5.0000E-01
^{109g} Ru	CY	1.5359E-03	1.5374E-03	9.9905E-01
^{109g} Ru	ΔCY	9.8297E-04	9.7735E-04	1.0058E+00
^{109g} Rh	IY	2.1801E-11	4.3602E-11	5.0000E-01
^{109g} Rh	ΔIY	1.3953E-11	2.7905E-11	5.0000E-01
^{109g} Rh	CY	1.5410E-03	1.5410E-03	1.0000E+00
^{109g} Rh	ΔCY	9.8626E-04	9.8626E-04	1.0000E+00
^{109g} Pd	ΔCY	9.8626E-04	9.7735E-04	1.0091E+00
^{109g} Ag	ΔCY	9.8626E-04	9.7735E-04	1.0091E+00
^{109m} Ag	ΔCY	9.8579E-04	9.7686E-04	1.0091E+00
^{132g} I	ΔCY	2.8007E-02	2.6219E-03	1.0682E+01
^{133g} I	ΔCY	4.4110E-02	1.1867E-02	3.7171E+00
^{133g} Xe	ΔCY	4.4114E-02	1.1764E-02	3.7500E+00
^{135g} Cs	ΔCY	3.8911E-02	1.2163E-03	3.1992E+01
^{135g} Ba	ΔCY	3.8911E-02	1.2163E-03	3.1992E+01
^{148g} Pr	ΔCY	1.0824E-02	3.8117E-03	2.8397E+00

²³⁶ U En = 14.0 MeV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	2.4448E-02	6.1116E-03	4.0003E+00
^{90g} Zr	ΔCY	2.4448E-02	6.1116E-03	4.0003E+00
^{91g} Y	ΔCY	2.7227E-02	6.8015E-03	4.0031E+00
^{91m} Y	ΔCY	1.5790E-02	4.1271E-03	3.8260E+00
^{93g} Y	ΔCY	3.2436E-02	7.8940E-03	4.1089E+00
^{93m} Y	ΔCY	1.1374E-02	2.9221E-03	3.8924E+00
^{109g} Ru	IY	1.8402E-03	3.6803E-03	5.0000E-01
^{109g} Ru	ΔIY	1.1777E-03	2.3554E-03	5.0000E-01
^{109g} Ru	CY	9.8999E-03	1.1712E-02	8.4531E-01
^{109g} Ru	ΔCY	6.3360E-03	4.3139E-03	1.4687E+00
^{109g} Rh	IY	1.1807E-04	2.3614E-04	5.0000E-01
^{109g} Rh	ΔIY	7.5565E-05	1.5113E-04	5.0000E-01
^{109g} Rh	CY	1.1976E-02	1.1976E-02	1.0000E+00
^{109g} Rh	ΔCY	7.6648E-03	7.6648E-03	1.0000E+00
^{109g} Pd	ΔCY	7.6657E-03	4.3165E-03	1.7759E+00
^{109g} Ag	ΔCY	7.6657E-03	4.3165E-03	1.7759E+00
^{109m} Ag	ΔCY	7.6621E-03	4.3144E-03	1.7759E+00
^{132g} I	ΔCY	3.1015E-02	5.1834E-03	5.9836E+00
^{133g} I	ΔCY	3.4221E-02	9.3329E-03	3.6667E+00
^{133g} Xe	ΔCY	3.4495E-02	9.2733E-03	3.7198E+00
^{135g} Cs	ΔCY	3.5671E-02	8.8859E-03	4.0143E+00
^{135g} Ba	ΔCY	3.5671E-02	8.8859E-03	4.0143E+00
^{148g} Pr	ΔCY	7.2587E-03	4.6054E-03	1.5761E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²³⁷ U En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
⁹⁰ gY	ΔCY	2.5059E-02	6.2648E-03	4.0000E+00
⁹⁰ gZr	ΔCY	2.5059E-02	6.2648E-03	4.0000E+00
⁹¹ gY	ΔCY	2.8071E-02	7.0178E-03	4.0000E+00
⁹¹ mY	ΔCY	1.6281E-02	4.2583E-03	3.8235E+00
⁹³ gY	ΔCY	3.3917E-02	8.4627E-03	4.0079E+00
⁹³ mY	ΔCY	1.1746E-02	3.1002E-03	3.7888E+00
¹⁰⁹ gRu	IY	2.8150E-06	5.6301E-06	5.0000E-01
¹⁰⁹ gRu	ΔIY	1.8016E-06	3.6032E-06	5.0000E-01
¹⁰⁹ gRu	CY	1.7870E-03	1.7843E-03	1.0015E+00
¹⁰⁹ gRu	ΔCY	1.1437E-03	1.1384E-03	1.0046E+00
¹⁰⁹ gRh	IY	6.1601E-12	1.2320E-11	5.0000E-01
¹⁰⁹ gRh	ΔIY	3.9424E-12	7.8849E-12	5.0000E-01
¹⁰⁹ gRh	CY	1.7898E-03	1.7898E-03	1.0000E+00
¹⁰⁹ gRh	ΔCY	1.1455E-03	1.1455E-03	1.0000E+00
¹⁰⁹ gPd	ΔCY	1.1455E-03	1.1384E-03	1.0062E+00
¹⁰⁹ gAg	ΔCY	1.1455E-03	1.1384E-03	1.0062E+00
¹⁰⁹ mAg	ΔCY	1.1449E-03	1.1378E-03	1.0063E+00
¹³² gI	ΔCY	3.0432E-02	7.6021E-03	4.0032E+00
¹³³ gI	ΔCY	3.5015E-02	8.0738E-03	4.3368E+00
¹³³ gXe	ΔCY	3.5015E-02	8.0620E-03	4.3433E+00
¹³⁵ gCs	ΔCY	4.2400E-02	1.0600E-02	4.0000E+00
¹³⁵ gBa	ΔCY	4.2400E-02	1.0600E-02	4.0000E+00
¹⁴⁸ gPr	ΔCY	1.1793E-02	5.8516E-03	2.0153E+00

²³⁸ U En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
⁹⁰ gY	ΔCY	2.0781E-02	4.5457E-04	4.5714E+01
⁹⁰ gZr	ΔCY	2.0781E-02	4.5457E-04	4.5714E+01
⁹¹ gY	ΔCY	2.5853E-02	8.0789E-04	3.2000E+01
⁹¹ mY	ΔCY	1.4995E-02	1.0088E-03	1.4863E+01
⁹³ gY	ΔCY	3.1445E-02	1.9638E-03	1.6012E+01
⁹³ mY	ΔCY	1.0884E-02	1.2305E-03	8.8453E+00
¹⁰⁹ gRu	IY	7.9000E-07	1.5800E-06	5.0000E-01
¹⁰⁹ gRu	ΔIY	5.0560E-07	1.0112E-06	5.0000E-01
¹⁰⁹ gRu	CY	2.5206E-03	2.5149E-03	1.0023E+00
¹⁰⁹ gRu	ΔCY	1.6132E-03	1.1310E-03	1.4264E+00
¹⁰⁹ gRh	IY	6.2400E-13	1.2480E-12	5.0000E-01
¹⁰⁹ gRh	ΔIY	3.9936E-13	7.9873E-13	5.0000E-01
¹⁰⁹ gRh	CY	2.5214E-03	2.5214E-03	1.0000E+00
¹⁰⁹ gRh	ΔCY	1.6137E-03	1.6137E-03	1.0000E+00
¹⁰⁹ gPd	ΔCY	1.6137E-03	1.1310E-03	1.4268E+00
¹⁰⁹ gAg	ΔCY	1.6137E-03	1.1310E-03	1.4268E+00
¹⁰⁹ mAg	ΔCY	1.6129E-03	1.1304E-03	1.4268E+00
¹³² gI	ΔCY	3.2936E-02	7.2276E-04	4.5569E+01
¹³³ gI	ΔCY	4.3260E-02	1.1471E-02	3.7711E+00
¹³³ gXe	ΔCY	4.3271E-02	1.1379E-02	3.8026E+00
¹³⁵ gCs	ΔCY	4.4593E-02	6.9745E-04	6.3937E+01
¹³⁵ gBa	ΔCY	4.4593E-02	6.9745E-04	6.3937E+01
¹⁴⁸ gPr	ΔCY	1.3464E-02	5.8926E-04	2.2849E+01

Table 2. Corrections to the NFY sublibrary (cont.)

²³⁸ U En = 14.0 MeV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
⁹⁰ gY	ΔCY	2.0413E-02	1.2758E-03	1.6000E+01
⁹⁰ gZr	ΔCY	2.0413E-02	1.2758E-03	1.6000E+01
⁹¹ gY	ΔCY	2.4753E-02	1.0828E-03	2.2859E+01
⁹¹ mY	ΔCY	1.4356E-02	1.0646E-03	1.3485E+01
⁹³ gY	ΔCY	2.8986E-02	2.7026E-03	1.0725E+01
⁹³ mY	ΔCY	1.0059E-02	1.3244E-03	7.5953E+00
¹⁰⁹ gRu	IY	9.8044E-04	1.9609E-03	5.0000E-01
¹⁰⁹ gRu	ΔIY	6.2748E-04	1.2550E-03	5.0000E-01
¹⁰⁹ gRu	CY	1.0191E-02	1.1140E-02	9.1483E-01
¹⁰⁹ gRu	ΔCY	6.5221E-03	4.3169E-03	1.5108E+00
¹⁰⁹ gRh	IY	2.8480E-05	5.6960E-05	5.0000E-01
¹⁰⁹ gRh	ΔIY	1.8227E-05	3.6455E-05	5.0000E-01
¹⁰⁹ gRh	CY	1.1228E-02	1.1228E-02	1.0000E+00
¹⁰⁹ gRh	ΔCY	7.1860E-03	7.1860E-03	1.0000E+00
¹⁰⁹ gPd	ΔCY	7.1861E-03	4.3170E-03	1.6646E+00
¹⁰⁹ gAg	ΔCY	7.1861E-03	4.3170E-03	1.6646E+00
¹⁰⁹ mAg	ΔCY	7.1827E-03	4.3149E-03	1.6646E+00
¹³² gI	ΔCY	3.0883E-02	1.0187E-03	3.0317E+01
¹³³ gI	ΔCY	3.8399E-02	1.0146E-02	3.7846E+00
¹³³ gXe	ΔCY	3.8510E-02	1.0076E-02	3.8220E+00
¹³⁵ gCs	ΔCY	3.7388E-02	1.1683E-03	3.2001E+01
¹³⁵ gBa	ΔCY	3.7388E-02	1.1683E-03	3.2001E+01
¹⁴⁸ gPr	ΔCY	1.0785E-02	5.2584E-03	2.0511E+00

²³⁷ Np En = 0.0253 eV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
⁹⁰ gY	ΔCY	2.2033E-02	5.5083E-03	4.0000E+00
⁹⁰ gZr	ΔCY	2.2033E-02	5.5083E-03	4.0000E+00
⁹¹ gY	ΔCY	2.3436E-02	4.0276E-03	5.8188E+00
⁹¹ mY	ΔCY	1.3593E-02	2.5129E-03	5.4091E+00
⁹³ gY	ΔCY	3.0876E-02	5.2482E-03	5.8832E+00
⁹³ mY	ΔCY	1.0742E-02	2.0617E-03	5.2101E+00
¹⁰⁹ gRu	IY	5.4534E-04	1.0907E-03	5.0000E-01
¹⁰⁹ gRu	ΔIY	3.4902E-04	6.9804E-04	5.0000E-01
¹⁰⁹ gRu	CY	1.0469E-02	1.0999E-02	9.5179E-01
¹⁰⁹ gRu	ΔCY	6.6998E-03	4.5129E-03	1.4846E+00
¹⁰⁹ gRh	IY	1.2200E-07	2.4400E-07	5.0000E-01
¹⁰⁹ gRh	ΔIY	7.8080E-08	1.5616E-07	5.0000E-01
¹⁰⁹ gRh	CY	1.1014E-02	1.1014E-02	1.0000E+00
¹⁰⁹ gRh	ΔCY	7.0490E-03	7.0490E-03	1.0000E+00
¹⁰⁹ gPd	ΔCY	7.0490E-03	4.5129E-03	1.5620E+00
¹⁰⁹ gAg	ΔCY	7.0490E-03	4.5129E-03	1.5620E+00
¹⁰⁹ mAg	ΔCY	7.0456E-03	4.5107E-03	1.5620E+00
¹³² gI	ΔCY	2.9216E-02	4.9828E-03	5.8634E+00
¹³³ gI	ΔCY	4.1434E-02	1.0804E-02	3.8351E+00
¹³³ gXe	ΔCY	4.1447E-02	1.0725E-02	3.8646E+00
¹³⁵ gCs	ΔCY	4.9126E-02	4.6053E-03	1.0667E+01
¹³⁵ gBa	ΔCY	4.9126E-02	4.6053E-03	1.0667E+01
¹⁴⁸ gPr	ΔCY	1.0174E-02	3.5273E-03	2.8843E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²³⁷ Np En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	2.1383E-02	2.6729E-03	8.0002E+00
^{90g} Zr	ΔCY	2.1383E-02	2.6729E-03	8.0002E+00
^{91g} Y	ΔCY	2.5132E-02	1.5702E-03	1.6005E+01
^{91m} Y	ΔCY	1.4576E-02	1.2677E-03	1.1498E+01
^{93g} Y	ΔCY	3.2745E-02	4.0330E-03	8.1193E+00
^{93m} Y	ΔCY	1.1453E-02	1.7674E-03	6.4801E+00
^{109g} Ru	IY	5.6371E-04	1.1274E-03	5.0000E-01
^{109g} Ru	ΔIY	3.6077E-04	7.2155E-04	5.0000E-01
^{109g} Ru	CY	5.8133E-03	6.3708E-03	9.1249E-01
^{109g} Ru	ΔCY	3.7205E-03	2.4674E-03	1.5079E+00
^{109g} Rh	IY	2.7500E-07	5.5000E-07	5.0000E-01
^{109g} Rh	ΔIY	1.7600E-07	3.5200E-07	5.0000E-01
^{109g} Rh	CY	6.3775E-03	6.3775E-03	1.0000E+00
^{109g} Rh	ΔCY	4.0816E-03	4.0816E-03	1.0000E+00
^{109g} Pd	ΔCY	4.0816E-03	2.4674E-03	1.6542E+00
^{109g} Ag	ΔCY	4.0816E-03	2.4674E-03	1.6542E+00
^{109m} Ag	ΔCY	4.0796E-03	2.4661E-03	1.6543E+00
^{132g} I	ΔCY	3.1019E-02	1.9488E-03	1.5917E+01
^{133g} I	ΔCY	4.1346E-02	6.0343E-03	6.8518E+00
^{133g} Xe	ΔCY	4.1399E-02	6.2734E-03	6.5992E+00
^{135g} Cs	ΔCY	4.6460E-02	2.0318E-03	2.2866E+01
^{135g} Ba	ΔCY	4.6460E-02	2.0318E-03	2.2866E+01
^{148g} Pr	ΔCY	9.9621E-03	3.3725E-03	2.9539E+00

²³⁷ Np En = 14.0 MeV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	1.6027E-02	4.0065E-03	4.0002E+00
^{90g} Zr	ΔCY	1.6027E-02	4.0065E-03	4.0002E+00
^{91g} Y	ΔCY	1.7088E-02	2.9354E-03	5.8215E+00
^{91m} Y	ΔCY	9.9105E-03	1.8315E-03	5.4112E+00
^{93g} Y	ΔCY	3.1460E-02	7.6698E-03	4.1018E+00
^{93m} Y	ΔCY	1.1021E-02	2.8349E-03	3.8877E+00
^{109g} Ru	IY	3.5350E-03	7.0700E-03	5.0000E-01
^{109g} Ru	ΔIY	2.2624E-03	4.5248E-03	5.0000E-01
^{109g} Ru	CY	1.0179E-02	1.3701E-02	7.4293E-01
^{109g} Ru	ΔCY	6.5143E-03	5.4201E-03	1.2019E+00
^{109g} Rh	IY	4.2507E-04	8.5014E-04	5.0000E-01
^{109g} Rh	ΔIY	2.7204E-04	5.4409E-04	5.0000E-01
^{109g} Rh	CY	1.4564E-02	1.4564E-02	1.0000E+00
^{109g} Rh	ΔCY	9.3208E-03	9.3208E-03	1.0000E+00
^{109g} Pd	ΔCY	9.3264E-03	5.4473E-03	1.7121E+00
^{109g} Ag	ΔCY	9.3264E-03	5.4473E-03	1.7121E+00
^{109m} Ag	ΔCY	9.3219E-03	5.4446E-03	1.7121E+00
^{132g} I	ΔCY	2.7934E-02	6.6027E-03	4.2307E+00
^{133g} I	ΔCY	2.8461E-02	9.3216E-03	3.0532E+00
^{133g} Xe	ΔCY	2.8796E-02	9.2082E-03	3.1272E+00
^{135g} Cs	ΔCY	3.2005E-02	7.9684E-03	4.0165E+00
^{135g} Ba	ΔCY	3.2005E-02	7.9684E-03	4.0165E+00
^{148g} Pr	ΔCY	6.7697E-03	4.2489E-03	1.5933E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²³⁸ Np En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	1.7071E-02	6.1350E-03	2.7826E+00
^{90g} Zr	ΔCY	1.7071E-02	6.1350E-03	2.7826E+00
^{91g} Y	ΔCY	2.0632E-02	5.1578E-03	4.0002E+00
^{91m} Y	ΔCY	1.1966E-02	3.1297E-03	3.8236E+00
^{93g} Y	ΔCY	2.8032E-02	6.9590E-03	4.0282E+00
^{93m} Y	ΔCY	9.7302E-03	2.5507E-03	3.8147E+00
^{109g} Ru	IY	4.5566E-04	9.1131E-04	5.0000E-01
^{109g} Ru	ΔIY	2.9162E-04	5.8324E-04	5.0000E-01
^{109g} Ru	CY	8.5193E-03	8.9600E-03	9.5082E-01
^{109g} Ru	ΔCY	5.4524E-03	3.6686E-03	1.4862E+00
^{109g} Rh	IY	8.0700E-08	1.6140E-07	5.0000E-01
^{109g} Rh	ΔIY	5.1648E-08	1.0330E-07	5.0000E-01
^{109g} Rh	CY	8.9751E-03	8.9751E-03	1.0000E+00
^{109g} Rh	ΔCY	5.7441E-03	5.7441E-03	1.0000E+00
^{109g} Pd	ΔCY	5.7441E-03	3.6686E-03	1.5658E+00
^{109g} Ag	ΔCY	5.7441E-03	3.6686E-03	1.5658E+00
^{109m} Ag	ΔCY	5.7413E-03	3.6667E-03	1.5658E+00
^{132g} I	ΔCY	3.2938E-02	5.6414E-03	5.8387E+00
^{133g} I	ΔCY	3.6921E-02	9.8408E-03	3.7518E+00
^{133g} Xe	ΔCY	3.6923E-02	9.7591E-03	3.7835E+00
^{135g} Cs	ΔCY	4.1146E-02	7.0718E-03	5.8183E+00
^{135g} Ba	ΔCY	4.1146E-02	7.0718E-03	5.8183E+00
^{148g} Pr	ΔCY	1.1049E-02	5.3927E-03	2.0489E+00

²³⁸ Pu En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	1.5582E-02	3.8953E-03	4.0002E+00
^{90g} Zr	ΔCY	1.5582E-02	3.8953E-03	4.0002E+00
^{91g} Y	ΔCY	1.8872E-02	6.7768E-03	2.7848E+00
^{91m} Y	ΔCY	1.0945E-02	4.0572E-03	2.6976E+00
^{93g} Y	ΔCY	2.6314E-02	6.3794E-03	4.1249E+00
^{93m} Y	ΔCY	9.2487E-03	2.3708E-03	3.9011E+00
^{109g} Ru	IY	4.6236E-03	9.2471E-03	5.0000E-01
^{109g} Ru	ΔIY	2.9591E-03	5.9182E-03	5.0000E-01
^{109g} Ru	CY	7.4262E-03	1.2050E-02	6.1630E-01
^{109g} Ru	ΔCY	4.7528E-03	6.1840E-03	7.6856E-01
^{109g} Rh	IY	5.7600E-05	1.1520E-04	5.0000E-01
^{109g} Rh	ΔIY	3.6864E-05	7.3728E-05	5.0000E-01
^{109g} Rh	CY	1.2165E-02	1.2165E-02	1.0000E+00
^{109g} Rh	ΔCY	7.7856E-03	7.7856E-03	1.0000E+00
^{109g} Pd	ΔCY	7.7856E-03	6.1844E-03	1.2589E+00
^{109g} Ag	ΔCY	7.7856E-03	6.1844E-03	1.2589E+00
^{109m} Ag	ΔCY	7.7819E-03	6.1813E-03	1.2589E+00
^{132g} I	ΔCY	3.3870E-02	8.2550E-03	4.1030E+00
^{133g} I	ΔCY	3.7462E-02	9.2365E-03	4.0559E+00
^{133g} Xe	ΔCY	3.7590E-02	9.2031E-03	4.0846E+00
^{135g} Cs	ΔCY	4.3169E-02	1.0774E-02	4.0068E+00
^{135g} Ba	ΔCY	4.3170E-02	1.0774E-02	4.0068E+00
^{148g} Pr	ΔCY	9.6597E-03	3.2810E-03	2.9441E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²³⁹ Pu En = 0.0253 eV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	1.3467E-02	4.2082E-04	3.2003E+01
^{90g} Zr	ΔCY	1.3467E-02	4.2082E-04	3.2003E+01
^{91g} Y	ΔCY	1.5913E-02	4.9692E-04	3.2024E+01
^{91m} Y	ΔCY	9.2285E-03	6.2041E-04	1.4875E+01
^{93g} Y	ΔCY	2.4293E-02	1.2841E-03	1.8919E+01
^{93m} Y	ΔCY	8.5771E-03	1.0045E-03	8.5388E+00
^{109g} Ru	IY	4.9792E-03	9.9585E-03	5.0000E-01
^{109g} Ru	ΔIY	3.1867E-03	6.3734E-03	5.0000E-01
^{109g} Ru	CY	9.0749E-03	1.4055E-02	6.4566E-01
^{109g} Ru	ΔCY	5.8079E-03	6.8916E-03	8.4275E-01
^{109g} Rh	IY	3.6236E-04	7.2471E-04	5.0000E-01
^{109g} Rh	ΔIY	1.6306E-04	4.6382E-04	3.5156E-01
^{109g} Rh	CY	1.4779E-02	1.4779E-02	1.0000E+00
^{109g} Rh	ΔCY	9.4584E-03	9.4584E-03	1.0000E+00
^{109g} Pd	ΔCY	9.4584E-03	6.9072E-03	1.3694E+00
^{109g} Ag	ΔCY	9.4584E-03	6.9072E-03	1.3694E+00
^{109m} Ag	ΔCY	9.4539E-03	6.9038E-03	1.3694E+00
^{132g} I	ΔCY	3.4481E-02	1.5218E-03	2.2659E+01
^{133g} I	ΔCY	4.4627E-02	5.4784E-03	8.1461E+00
^{133g} Xe	ΔCY	4.4904E-02	5.8857E-03	7.6294E+00
^{135g} Cs	ΔCY	4.8774E-02	7.6487E-04	6.3767E+01
^{135g} Ba	ΔCY	4.8774E-02	7.6487E-04	6.3767E+01
^{148g} Pr	ΔCY	8.4442E-03	3.0514E-03	2.7673E+00

²³⁹ Pu En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	1.3085E-02	1.4311E-04	9.1433E+01
^{90g} Zr	ΔCY	1.3085E-02	1.4311E-04	9.1433E+01
^{91g} Y	ΔCY	1.6075E-02	7.0281E-04	2.2873E+01
^{91m} Y	ΔCY	9.1997E-03	6.9095E-04	1.3314E+01
^{93g} Y	ΔCY	2.4431E-02	3.0104E-03	8.1155E+00
^{93m} Y	ΔCY	1.7283E-03	1.3527E-03	1.2777E+00
^{109g} Ru	IY	4.1596E-03	8.3193E-03	5.0000E-01
^{109g} Ru	ΔIY	1.9635E-03	5.3243E-03	3.6879E-01
^{109g} Ru	CY	1.0192E-02	1.0211E-02	9.9816E-01
^{109g} Ru	ΔCY	6.5227E-03	5.4602E-03	1.1946E+00
^{109g} Rh	IY	7.5769E-05	1.5154E-04	5.0000E-01
^{109g} Rh	ΔIY	4.8466E-05	9.6984E-05	4.9974E-01
^{109g} Rh	CY	1.0343E-02	1.0343E-02	1.0000E+00
^{109g} Rh	ΔCY	6.6197E-03	6.6197E-03	1.0000E+00
^{109g} Pd	ΔCY	6.6197E-03	5.4610E-03	1.2122E+00
^{109g} Ag	ΔCY	6.6197E-03	5.4610E-03	1.2122E+00
^{109m} Ag	ΔCY	6.6136E-03	5.4583E-03	1.2117E+00
^{132g} I	ΔCY	3.3958E-02	1.2640E-03	2.6867E+01
^{133g} I	ΔCY	4.4134E-02	7.2711E-03	6.0698E+00
^{133g} Xe	ΔCY	4.4534E-02	7.3770E-03	6.0368E+00
^{135g} Cs	ΔCY	4.8261E-02	7.5640E-04	6.3804E+01
^{148g} Pr	ΔCY	9.5452E-03	3.2199E-03	2.9644E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²³⁹ Pu En = 2.0 MeV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	1.4060E-02	3.2952E-04	4.2669E+01
^{90g} Zr	ΔCY	1.4060E-02	3.2952E-04	4.2669E+01
^{91g} Y	ΔCY	1.7075E-02	7.4652E-04	2.2872E+01
^{91m} Y	ΔCY	9.7716E-03	7.3393E-04	1.3314E+01
^{93g} Y	ΔCY	2.5381E-02	3.1212E-03	8.1318E+00
^{93m} Y	ΔCY	1.7970E-03	1.3985E-03	1.2849E+00
^{109g} Ru	IY	4.3787E-03	8.7575E-03	5.0000E-01
^{109g} Ru	ΔIY	1.9634E-03	5.6048E-03	3.5031E-01
^{109g} Ru	CY	1.0576E-02	1.0594E-02	9.9838E-01
^{109g} Ru	ΔCY	6.7689E-03	5.7267E-03	1.1820E+00
^{109g} Rh	IY	7.5998E-05	1.5200E-04	5.0000E-01
^{109g} Rh	ΔIY	4.8463E-05	9.7278E-05	4.9819E-01
^{109g} Rh	CY	1.0728E-02	1.0728E-02	1.0000E+00
^{109g} Rh	ΔCY	6.8662E-03	6.8662E-03	1.0000E+00
^{109g} Pd	ΔCY	6.8662E-03	5.7275E-03	1.1988E+00
^{109g} Ag	ΔCY	6.8662E-03	5.7275E-03	1.1988E+00
^{109m} Ag	ΔCY	6.8599E-03	5.7246E-03	1.1983E+00
^{132g} I	ΔCY	3.3079E-02	1.2408E-03	2.6660E+01
^{133g} I	ΔCY	4.2750E-02	7.0073E-03	6.1008E+00
^{133g} Xe	ΔCY	4.3156E-02	7.1140E-03	6.0663E+00
^{135g} Cs	ΔCY	4.6720E-02	1.0958E-03	4.2638E+01
^{148g} Pr	ΔCY	1.0379E-02	3.4757E-03	2.9862E+00

²³⁹ Pu En = 14.0 MeV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	1.2288E-02	4.4113E-03	2.7856E+00
^{90g} Zr	ΔCY	1.2288E-02	4.4113E-03	2.7856E+00
^{91g} Y	ΔCY	1.4318E-02	2.4453E-03	5.8551E+00
^{91m} Y	ΔCY	8.1876E-03	1.5259E-03	5.3658E+00
^{93g} Y	ΔCY	1.9133E-02	4.5652E-03	4.1910E+00
^{93m} Y	ΔCY	1.8688E-03	1.9080E-03	9.7946E-01
^{109g} Ru	IY	6.5436E-03	1.3087E-02	5.0000E-01
^{109g} Ru	ΔIY	3.5441E-03	8.3758E-03	4.2314E-01
^{109g} Ru	CY	2.0481E-02	2.0572E-02	9.9556E-01
^{109g} Ru	ΔCY	1.3108E-02	9.0277E-03	1.4520E+00
^{109g} Rh	IY	2.0225E-03	4.0642E-03	4.9763E-01
^{109g} Rh	ΔIY	1.4127E-03	2.6011E-03	5.4310E-01
^{109g} Rh	CY	2.4536E-02	2.4536E-02	1.0000E+00
^{109g} Rh	ΔCY	1.5703E-02	1.5703E-02	1.0000E+00
^{109g} Pd	ΔCY	1.5839E-02	9.3956E-03	1.6857E+00
^{109g} Ag	ΔCY	1.5839E-02	9.3956E-03	1.6858E+00
^{109m} Ag	ΔCY	1.5824E-02	9.3909E-03	1.6851E+00
^{132g} I	ΔCY	2.5992E-02	5.2480E-03	4.9528E+00
^{133g} I	ΔCY	3.0348E-02	1.0344E-02	2.9339E+00
^{133g} Xe	ΔCY	3.2510E-02	1.0337E-02	3.1450E+00
^{135g} Cs	ΔCY	3.3162E-02	1.6048E-02	2.0664E+00
^{148g} Pr	ΔCY	6.7821E-03	3.7344E-03	1.8161E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²⁴⁰ Pu En = 0.0253 eV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	1.1780E-02	4.2333E-03	2.7826E+00
^{90g} Zr	ΔCY	1.1780E-02	4.2333E-03	2.7826E+00
^{91g} Y	ΔCY	1.4134E-02	7.0656E-03	2.0004E+00
^{91m} Y	ΔCY	8.1973E-03	4.2039E-03	1.9499E+00
^{93g} Y	ΔCY	2.2144E-02	5.4471E-03	4.0654E+00
^{93m} Y	ΔCY	7.7210E-03	2.0021E-03	3.8565E+00
^{109g} Ru	IY	7.5789E-03	1.5158E-02	5.0000E-01
^{109g} Ru	ΔIY	4.8505E-03	9.7010E-03	5.0000E-01
^{109g} Ru	CY	1.3783E-02	2.1358E-02	6.4534E-01
^{109g} Ru	ΔCY	8.8213E-03	1.0094E-02	8.7389E-01
^{109g} Rh	IY	6.2660E-05	1.2532E-04	5.0000E-01
^{109g} Rh	ΔIY	4.0102E-05	8.0205E-05	5.0000E-01
^{109g} Rh	CY	2.1487E-02	2.1487E-02	1.0000E+00
^{109g} Rh	ΔCY	1.3752E-02	1.3752E-02	1.0000E+00
^{109g} Pd	ΔCY	1.3752E-02	1.0095E-02	1.3623E+00
^{109g} Ag	ΔCY	1.3752E-02	1.0095E-02	1.3623E+00
^{109m} Ag	ΔCY	1.3745E-02	1.0089E-02	1.3623E+00
^{132g} I	ΔCY	3.0790E-02	7.6120E-03	4.0449E+00
^{133g} I	ΔCY	4.2942E-02	1.0237E-02	4.1948E+00
^{133g} Xe	ΔCY	4.2978E-02	1.0207E-02	4.2106E+00
^{135g} Cs	ΔCY	4.6299E-02	1.1571E-02	4.0014E+00
^{135g} Ba	ΔCY	4.6299E-02	1.1571E-02	4.0014E+00
^{148g} Pr	ΔCY	1.0817E-02	3.7396E-03	2.8926E+00

²⁴⁰ Pu En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	1.1513E-02	1.0793E-03	1.0667E+01
^{90g} Zr	ΔCY	1.1513E-02	1.0793E-03	1.0667E+01
^{91g} Y	ΔCY	1.4018E-02	1.3139E-03	1.0669E+01
^{91m} Y	ΔCY	8.1304E-03	9.1385E-04	8.8969E+00
^{93g} Y	ΔCY	2.2467E-02	2.7708E-03	8.1086E+00
^{93m} Y	ΔCY	7.8419E-03	1.2074E-03	6.4949E+00
^{109g} Ru	IY	6.1601E-03	1.2320E-02	5.0000E-01
^{109g} Ru	ΔIY	3.9425E-03	7.8850E-03	5.0000E-01
^{109g} Ru	CY	1.1196E-02	1.7354E-02	6.4514E-01
^{109g} Ru	ΔCY	7.1654E-03	8.5178E-03	8.4123E-01
^{109g} Rh	IY	5.2960E-05	1.0592E-04	5.0000E-01
^{109g} Rh	ΔIY	3.3894E-05	6.7789E-05	5.0000E-01
^{109g} Rh	CY	1.7462E-02	1.7462E-02	1.0000E+00
^{109g} Rh	ΔCY	1.1176E-02	1.1176E-02	1.0000E+00
^{109g} Pd	ΔCY	1.1176E-02	8.5180E-03	1.3120E+00
^{109g} Ag	ΔCY	1.1176E-02	8.5180E-03	1.3120E+00
^{109m} Ag	ΔCY	1.1170E-02	8.5138E-03	1.3120E+00
^{132g} I	ΔCY	3.2239E-02	7.9654E-03	4.0474E+00
^{133g} I	ΔCY	4.4245E-02	1.0729E-02	4.1240E+00
^{133g} Xe	ΔCY	4.4286E-02	1.0689E-02	4.1432E+00
^{135g} Cs	ΔCY	4.7632E-02	2.0835E-03	2.2862E+01
^{135g} Ba	ΔCY	4.7632E-02	2.0835E-03	2.2862E+01
^{148g} Pr	ΔCY	1.0774E-02	2.6142E-03	4.1212E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²⁴⁰ Pu En = 14.0 MeV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	1.2493E-02	1.1709E-03	1.0670E+01
^{90g} Zr	ΔCY	1.2493E-02	1.1709E-03	1.0670E+01
^{91g} Y	ΔCY	1.5678E-02	1.4658E-03	1.0696E+01
^{91m} Y	ΔCY	9.0893E-03	1.0195E-03	8.9158E+00
^{93g} Y	ΔCY	1.8515E-02	4.4087E-03	4.1996E+00
^{93m} Y	ΔCY	6.5943E-03	1.6975E-03	3.8848E+00
^{109g} Ru	IY	6.1592E-03	1.2318E-02	5.0000E-01
^{109g} Ru	ΔIY	3.9419E-03	7.8838E-03	5.0000E-01
^{109g} Ru	CY	1.3809E-02	1.9948E-02	6.9226E-01
^{109g} Ru	ΔCY	8.8380E-03	8.5990E-03	1.0278E+00
^{109g} Rh	IY	1.4572E-03	2.9171E-03	4.9955E-01
^{109g} Rh	ΔIY	9.3263E-04	1.8669E-03	4.9955E-01
^{109g} Rh	CY	2.2886E-02	2.2886E-02	1.0000E+00
^{109g} Rh	ΔCY	1.4647E-02	1.4647E-02	1.0000E+00
^{109g} Pd	ΔCY	1.4701E-02	8.7994E-03	1.6707E+00
^{109g} Ag	ΔCY	1.4701E-02	8.7994E-03	1.6707E+00
^{109m} Ag	ΔCY	1.4694E-02	8.7950E-03	1.6707E+00
^{132g} I	ΔCY	2.8800E-02	4.3314E-03	6.6492E+00
^{133g} I	ΔCY	3.4507E-02	1.1187E-02	3.0846E+00
^{133g} Xe	ΔCY	3.5527E-02	1.1127E-02	3.1928E+00
^{135g} Cs	ΔCY	3.4173E-02	2.1347E-03	1.6008E+01
^{135g} Ba	ΔCY	3.4176E-02	2.1347E-03	1.6010E+01
^{148g} Pr	ΔCY	7.3107E-03	4.2476E-03	1.7212E+00

²⁴¹ Pu En = 0.0253 eV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	9.8292E-03	2.1501E-04	4.5714E+01
^{90g} Zr	ΔCY	9.8292E-03	2.1501E-04	4.5714E+01
^{91g} Y	ΔCY	1.1931E-02	5.2191E-04	2.2859E+01
^{91m} Y	ΔCY	6.9196E-03	5.1312E-04	1.3485E+01
^{93g} Y	ΔCY	1.9059E-02	1.7738E-03	1.0745E+01
^{93m} Y	ΔCY	6.6248E-03	8.7092E-04	7.6067E+00
^{109g} Ru	IY	6.1427E-03	1.2285E-02	5.0000E-01
^{109g} Ru	ΔIY	3.9313E-03	7.8626E-03	5.0000E-01
^{109g} Ru	CY	1.9196E-02	2.5334E-02	7.5773E-01
^{109g} Ru	ΔCY	1.2286E-02	8.4159E-03	1.4598E+00
^{109g} Rh	IY	2.6748E-04	5.3496E-04	5.0000E-01
^{109g} Rh	ΔIY	1.7119E-04	3.4237E-04	5.0000E-01
^{109g} Rh	CY	2.5874E-02	2.5874E-02	1.0000E+00
^{109g} Rh	ΔCY	1.6559E-02	1.6559E-02	1.0000E+00
^{109g} Pd	ΔCY	1.6561E-02	8.4229E-03	1.9661E+00
^{109g} Ag	ΔCY	1.6561E-02	8.4229E-03	1.9661E+00
^{109m} Ag	ΔCY	1.6553E-02	8.4187E-03	1.9662E+00
^{132g} I	ΔCY	2.9186E-02	1.2870E-03	2.2678E+01
^{133g} I	ΔCY	4.3059E-02	2.0686E-02	2.0815E+00
^{133g} Xe	ΔCY	4.3064E-02	2.0219E-02	2.1299E+00
^{135g} Cs	ΔCY	4.5893E-02	1.4345E-03	3.1993E+01
^{135g} Ba	ΔCY	4.5893E-02	1.4345E-03	3.1993E+01
^{148g} Pr	ΔCY	1.2117E-02	1.5041E-03	8.0559E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²⁴¹ Pu En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	9.9259E-03	1.2407E-03	8.0000E+00
^{90g} Zr	ΔCY	9.9259E-03	1.2407E-03	8.0000E+00
^{91g} Y	ΔCY	1.2344E-02	1.5430E-03	8.0004E+00
^{91m} Y	ΔCY	7.1598E-03	1.0058E-03	7.1185E+00
^{93g} Y	ΔCY	1.9078E-02	9.4699E-03	2.0146E+00
^{93m} Y	ΔCY	6.6225E-03	3.2983E-03	2.0078E+00
^{109g} Ru	IY	6.9742E-03	1.3948E-02	5.0000E-01
^{109g} Ru	ΔIY	4.4635E-03	8.9270E-03	5.0000E-01
^{109g} Ru	CY	1.5384E-02	2.2356E-02	6.8813E-01
^{109g} Ru	ΔCY	9.8455E-03	9.6956E-03	1.0155E+00
^{109g} Rh	IY	5.8146E-04	1.1629E-03	5.0000E-01
^{109g} Rh	ΔIY	3.7213E-04	7.4427E-04	5.0000E-01
^{109g} Rh	CY	2.3521E-02	2.3521E-02	1.0000E+00
^{109g} Rh	ΔCY	1.5053E-02	1.5053E-02	1.0000E+00
^{109g} Pd	ΔCY	1.5059E-02	9.7242E-03	1.5486E+00
^{109g} Ag	ΔCY	1.5059E-02	9.7242E-03	1.5486E+00
^{109m} Ag	ΔCY	1.5052E-02	9.7193E-03	1.5487E+00
^{132g} I	ΔCY	3.0130E-02	2.8104E-03	1.0721E+01
^{133g} I	ΔCY	4.1327E-02	1.1005E-02	3.7554E+00
^{133g} Xe	ΔCY	4.1340E-02	1.0915E-02	3.7876E+00
^{135g} Cs	ΔCY	4.5246E-02	1.4143E-03	3.1993E+01
^{135g} Ba	ΔCY	4.5246E-02	1.4143E-03	3.1993E+01
^{148g} Pr	ΔCY	1.2182E-02	2.0637E-03	5.9032E+00

²⁴² Pu En = 0.0253 eV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	7.9284E-03	3.9642E-03	2.0000E+00
^{90g} Zr	ΔCY	7.9284E-03	3.9642E-03	2.0000E+00
^{91g} Y	ΔCY	1.0789E-02	5.3946E-03	2.0000E+00
^{91m} Y	ΔCY	6.2578E-03	3.2097E-03	1.9496E+00
^{93g} Y	ΔCY	1.7174E-02	6.1543E-03	2.7906E+00
^{93m} Y	ΔCY	5.9500E-03	2.1786E-03	2.7311E+00
^{109g} Ru	IY	6.4619E-03	1.2924E-02	5.0000E-01
^{109g} Ru	ΔIY	4.1356E-03	8.2713E-03	5.0000E-01
^{109g} Ru	CY	2.8178E-02	3.4618E-02	8.1399E-01
^{109g} Ru	ΔCY	1.8034E-02	9.6597E-03	1.8670E+00
^{109g} Rh	IY	2.0701E-04	4.1402E-04	5.0000E-01
^{109g} Rh	ΔIY	1.3249E-04	2.6497E-04	5.0000E-01
^{109g} Rh	CY	3.5054E-02	3.5054E-02	1.0000E+00
^{109g} Rh	ΔCY	2.2435E-02	2.2435E-02	1.0000E+00
^{109g} Pd	ΔCY	2.2436E-02	9.6633E-03	2.3217E+00
^{109g} Ag	ΔCY	2.2436E-02	9.6633E-03	2.3217E+00
^{109m} Ag	ΔCY	2.2425E-02	9.6585E-03	2.3218E+00
^{132g} I	ΔCY	2.5402E-02	9.1114E-03	2.7879E+00
^{133g} I	ΔCY	3.7496E-02	8.5629E-03	4.3789E+00
^{133g} Xe	ΔCY	3.7499E-02	8.5551E-03	4.3833E+00
^{135g} Cs	ΔCY	4.7965E-02	1.1991E-02	4.0001E+00
^{135g} Ba	ΔCY	4.7965E-02	1.1991E-02	4.0001E+00
^{148g} Pr	ΔCY	1.2575E-02	4.4635E-03	2.8174E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²⁴² Pu En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	8.7041E-03	1.0880E-03	8.0000E+00
^{90g} Zr	ΔCY	8.7041E-03	1.0880E-03	8.0000E+00
^{91g} Y	ΔCY	1.1529E-02	1.4411E-03	8.0002E+00
^{91m} Y	ΔCY	6.6868E-03	9.3937E-04	7.1184E+00
^{93g} Y	ΔCY	1.7957E-02	3.0746E-03	5.8406E+00
^{93m} Y	ΔCY	6.2242E-03	1.2046E-03	5.1671E+00
^{109g} Ru	IY	6.1140E-03	1.2228E-02	5.0000E-01
^{109g} Ru	ΔIY	3.9130E-03	7.8260E-03	5.0000E-01
^{109g} Ru	CY	2.5319E-02	3.1418E-02	8.0588E-01
^{109g} Ru	ΔCY	1.6204E-02	8.9848E-03	1.8035E+00
^{109g} Rh	IY	2.5298E-04	5.0596E-04	5.0000E-01
^{109g} Rh	ΔIY	1.6191E-04	3.2381E-04	5.0000E-01
^{109g} Rh	CY	3.1939E-02	3.1939E-02	1.0000E+00
^{109g} Rh	ΔCY	2.0441E-02	2.0441E-02	1.0000E+00
^{109g} Pd	ΔCY	2.0442E-02	8.9906E-03	2.2737E+00
^{109g} Ag	ΔCY	2.0442E-02	8.9906E-03	2.2737E+00
^{109m} Ag	ΔCY	2.0432E-02	8.9861E-03	2.2738E+00
^{132g} I	ΔCY	2.8690E-02	2.6826E-03	1.0695E+01
^{133g} I	ΔCY	4.2547E-02	1.1359E-02	3.7457E+00
^{133g} Xe	ΔCY	4.2551E-02	1.1264E-02	3.7777E+00
^{135g} Cs	ΔCY	4.4782E-02	1.9594E-03	2.2855E+01
^{135g} Ba	ΔCY	4.4782E-02	1.9594E-03	2.2855E+01
^{148g} Pr	ΔCY	1.2548E-02	1.5577E-03	8.0556E+00

²⁴² Pu En = 14.0 MeV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	9.8136E-03	4.9067E-03	2.0000E+00
^{90g} Zr	ΔCY	9.8136E-03	4.9067E-03	2.0000E+00
^{91g} Y	ΔCY	1.3595E-02	1.6990E-03	8.0014E+00
^{91m} Y	ΔCY	7.8848E-03	1.1075E-03	7.1193E+00
^{93g} Y	ΔCY	1.6946E-02	4.1842E-03	4.0499E+00
^{93m} Y	ΔCY	5.8971E-03	1.5357E-03	3.8401E+00
^{109g} Ru	IY	4.7967E-03	9.5934E-03	5.0000E-01
^{109g} Ru	ΔIY	3.0699E-03	6.1398E-03	5.0000E-01
^{109g} Ru	CY	1.9834E-02	2.4597E-02	8.0636E-01
^{109g} Ru	ΔCY	1.2694E-02	7.0431E-03	1.8023E+00
^{109g} Rh	IY	4.1425E-04	8.2850E-04	5.0000E-01
^{109g} Rh	ΔIY	2.6512E-04	5.3024E-04	5.0000E-01
^{109g} Rh	CY	2.5459E-02	2.5459E-02	1.0000E+00
^{109g} Rh	ΔCY	1.6294E-02	1.6294E-02	1.0000E+00
^{109g} Pd	ΔCY	1.6298E-02	7.0630E-03	2.3076E+00
^{109g} Ag	ΔCY	1.6298E-02	7.0630E-03	2.3076E+00
^{109m} Ag	ΔCY	1.6291E-02	7.0595E-03	2.3076E+00
^{132g} I	ΔCY	3.3642E-02	1.5890E-03	2.1171E+01
^{133g} I	ΔCY	3.5465E-02	1.0438E-02	3.3976E+00
^{133g} Xe	ΔCY	3.5580E-02	1.0321E-02	3.4472E+00
^{135g} Cs	ΔCY	3.9536E-02	3.7033E-03	1.0676E+01
^{135g} Ba	ΔCY	3.9537E-02	3.7033E-03	1.0676E+01
^{148g} Pr	ΔCY	1.0381E-02	3.5294E-03	2.9411E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²⁴¹ Am En = 0.0253 eV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	8.7461E-03	1.0932E-03	8.0003E+00
^{90g} Zr	ΔCY	8.7461E-03	1.0932E-03	8.0003E+00
^{91g} Y	ΔCY	1.1827E-02	1.4774E-03	8.0052E+00
^{91m} Y	ΔCY	6.8590E-03	9.6304E-04	7.1222E+00
^{93g} Y	ΔCY	1.7194E-02	2.8764E-03	5.9776E+00
^{93m} Y	ΔCY	6.0616E-03	1.1670E-03	5.1943E+00
^{109g} Ru	IY	7.8681E-03	1.5736E-02	5.0000E-01
^{109g} Ru	ΔIY	5.0356E-03	1.0071E-02	5.0000E-01
^{109g} Ru	CY	1.2466E-02	2.0333E-02	6.1308E-01
^{109g} Ru	ΔCY	7.9782E-03	1.0492E-02	7.6040E-01
^{109g} Rh	IY	2.2243E-03	4.5191E-03	4.9219E-01
^{109g} Rh	ΔIY	1.4235E-03	2.8922E-03	4.9219E-01
^{109g} Rh	CY	2.4853E-02	2.4853E-02	1.0000E+00
^{109g} Rh	ΔCY	1.5906E-02	1.5906E-02	1.0000E+00
^{109g} Pd	ΔCY	1.5965E-02	1.0884E-02	1.4669E+00
^{109g} Ag	ΔCY	1.5965E-02	1.0884E-02	1.4669E+00
^{109m} Ag	ΔCY	1.5958E-02	1.0878E-02	1.4670E+00
^{132g} I	ΔCY	3.0455E-02	2.0591E-03	1.4790E+01
^{133g} I	ΔCY	3.5096E-02	9.3079E-03	3.7706E+00
^{133g} Xe	ΔCY	3.5249E-02	9.2449E-03	3.8128E+00
^{135g} Cs	ΔCY	4.4881E-02	1.9611E-03	2.2885E+01
^{135g} Ba	ΔCY	4.4881E-02	1.9611E-03	2.2885E+01
^{148g} Pr	ΔCY	1.0372E-02	3.5091E-03	2.9559E+00

²⁴¹ Am En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	1.0979E-02	3.9449E-03	2.7830E+00
^{90g} Zr	ΔCY	1.0979E-02	3.9449E-03	2.7830E+00
^{91g} Y	ΔCY	1.3611E-02	1.6982E-03	8.0146E+00
^{91m} Y	ΔCY	7.8921E-03	1.1070E-03	7.1293E+00
^{93g} Y	ΔCY	1.8028E-02	6.0678E-03	2.9711E+00
^{93m} Y	ΔCY	6.4463E-03	2.2265E-03	2.8952E+00
^{109g} Ru	IY	7.2652E-03	1.4530E-02	5.0000E-01
^{109g} Ru	ΔIY	4.6497E-03	9.2995E-03	5.0000E-01
^{109g} Ru	CY	1.1942E-02	1.9204E-02	6.2186E-01
^{109g} Ru	ΔCY	7.6431E-03	9.7687E-03	7.8241E-01
^{109g} Rh	IY	2.0530E-03	4.0637E-03	5.0520E-01
^{109g} Rh	ΔIY	1.3139E-03	2.6007E-03	5.0520E-01
^{109g} Rh	CY	2.3271E-02	2.3271E-02	1.0000E+00
^{109g} Rh	ΔCY	1.4894E-02	1.4894E-02	1.0000E+00
^{109g} Pd	ΔCY	1.4945E-02	1.0109E-02	1.4784E+00
^{109g} Ag	ΔCY	1.4945E-02	1.0109E-02	1.4784E+00
^{109m} Ag	ΔCY	1.4938E-02	1.0104E-02	1.4784E+00
^{132g} I	ΔCY	2.7524E-02	2.7035E-03	1.0181E+01
^{133g} I	ΔCY	3.7121E-02	1.7393E-02	2.1343E+00
^{133g} Xe	ΔCY	3.7234E-02	1.7011E-02	2.1888E+00
^{135g} Cs	ΔCY	4.1639E-02	2.5957E-03	1.6042E+01
^{135g} Ba	ΔCY	4.1639E-02	2.5957E-03	1.6042E+01
^{148g} Pr	ΔCY	1.0158E-02	3.5160E-03	2.8892E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²⁴¹ Am En = 14.0 MeV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	1.1143E-02	4.0003E-03	2.7856E+00
^{90g} Zr	ΔCY	1.1143E-02	4.0003E-03	2.7856E+00
^{91g} Y	ΔCY	1.3087E-02	1.2196E-03	1.0731E+01
^{91m} Y	ΔCY	7.5823E-03	8.4825E-04	8.9388E+00
^{93g} Y	ΔCY	1.5455E-02	5.0504E-03	3.0602E+00
^{93m} Y	ΔCY	5.6429E-03	1.9711E-03	2.8628E+00
^{109g} Ru	IY	8.8290E-03	1.7658E-02	5.0000E-01
^{109g} Ru	ΔIY	5.6505E-03	1.1301E-02	5.0000E-01
^{109g} Ru	CY	1.4546E-02	2.3368E-02	6.2249E-01
^{109g} Ru	ΔCY	9.3097E-03	1.1590E-02	8.0329E-01
^{109g} Rh	IY	4.1521E-03	8.3053E-03	4.9994E-01
^{109g} Rh	ΔIY	2.6574E-03	5.3154E-03	4.9994E-01
^{109g} Rh	CY	3.1681E-02	3.1681E-02	1.0000E+00
^{109g} Rh	ΔCY	2.0276E-02	2.0276E-02	1.0000E+00
^{109g} Pd	ΔCY	2.0620E-02	1.2753E-02	1.6169E+00
^{109g} Ag	ΔCY	2.0623E-02	1.2753E-02	1.6171E+00
^{109m} Ag	ΔCY	2.0612E-02	1.2747E-02	1.6170E+00
^{132g} I	ΔCY	2.2966E-02	6.2012E-03	3.7035E+00
^{133g} I	ΔCY	2.7536E-02	1.0755E-02	2.5602E+00
^{133g} Xe	ΔCY	2.9596E-02	1.0813E-02	2.7371E+00
^{135g} Cs	ΔCY	3.0328E-02	2.9201E-03	1.0386E+01
^{135g} Ba	ΔCY	3.0349E-02	2.9202E-03	1.0393E+01
^{148g} Pr	ΔCY	6.5604E-03	3.8023E-03	1.7254E+00

²⁴² Am En = 0.0253 eV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	8.8283E-03	1.1035E-03	8.0002E+00
^{90g} Zr	ΔCY	8.8283E-03	1.1035E-03	8.0002E+00
^{91g} Y	ΔCY	1.1198E-02	4.0223E-03	2.7839E+00
^{91m} Y	ΔCY	6.4943E-03	2.4081E-03	2.6968E+00
^{93g} Y	ΔCY	1.6505E-02	2.7751E-03	5.9473E+00
^{93m} Y	ΔCY	5.7843E-03	1.1051E-03	5.2343E+00
^{109g} Ru	IY	1.1462E-02	2.2924E-02	5.0000E-01
^{109g} Ru	ΔIY	7.3358E-03	1.4672E-02	5.0000E-01
^{109g} Ru	CY	2.1064E-02	3.2523E-02	6.4766E-01
^{109g} Ru	ΔCY	1.3481E-02	1.5294E-02	8.8144E-01
^{109g} Rh	IY	2.4461E-03	4.8925E-03	4.9998E-01
^{109g} Rh	ΔIY	1.5655E-03	3.1312E-03	4.9998E-01
^{109g} Rh	CY	3.7419E-02	3.7419E-02	1.0000E+00
^{109g} Rh	ΔCY	2.3948E-02	2.3948E-02	1.0000E+00
^{109g} Pd	ΔCY	2.3995E-02	1.5611E-02	1.5370E+00
^{109g} Ag	ΔCY	2.3995E-02	1.5611E-02	1.5370E+00
^{109m} Ag	ΔCY	2.3983E-02	1.5604E-02	1.5370E+00
^{132g} I	ΔCY	3.0700E-02	2.9293E-03	1.0480E+01
^{133g} I	ΔCY	3.8005E-02	9.0837E-03	4.1838E+00
^{133g} Xe	ΔCY	3.8286E-02	9.0816E-03	4.2157E+00
^{135g} Cs	ΔCY	4.2586E-02	7.3110E-03	5.8250E+00
^{135g} Ba	ΔCY	4.2587E-02	7.3110E-03	5.8250E+00
^{148g} Pr	ΔCY	1.2274E-02	4.1520E-03	2.9562E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²⁴³ Am En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	8.7650E-03	4.3822E-03	2.0001E+00
^{90g} Zr	ΔCY	8.7650E-03	4.3822E-03	2.0001E+00
^{91g} Y	ΔCY	1.1189E-02	5.5900E-03	2.0015E+00
^{91m} Y	ΔCY	6.4887E-03	3.3260E-03	1.9509E+00
^{93g} Y	ΔCY	1.6501E-02	3.9989E-03	4.1264E+00
^{93m} Y	ΔCY	5.8008E-03	1.4867E-03	3.9017E+00
^{109g} Ru	IY	1.0481E-02	2.0962E-02	5.0000E-01
^{109g} Ru	ΔIY	6.7079E-03	1.3416E-02	5.0000E-01
^{109g} Ru	CY	2.3425E-02	3.3895E-02	6.9110E-01
^{109g} Ru	ΔCY	1.4992E-02	1.3742E-02	1.0910E+00
^{109g} Rh	IY	1.9073E-03	3.8146E-03	5.0000E-01
^{109g} Rh	ΔIY	1.2207E-03	2.4413E-03	5.0000E-01
^{109g} Rh	CY	3.7721E-02	3.7721E-02	1.0000E+00
^{109g} Rh	ΔCY	2.4141E-02	2.4141E-02	1.0000E+00
^{109g} Pd	ΔCY	2.4181E-02	1.3957E-02	1.7326E+00
^{109g} Ag	ΔCY	2.4181E-02	1.3957E-02	1.7326E+00
^{109m} Ag	ΔCY	2.4169E-02	1.3950E-02	1.7326E+00
^{132g} I	ΔCY	3.0155E-02	7.3480E-03	4.1038E+00
^{133g} I	ΔCY	3.5872E-02	1.0496E-02	3.4177E+00
^{133g} Xe	ΔCY	3.5972E-02	1.0380E-02	3.4656E+00
^{135g} Cs	ΔCY	4.3342E-02	1.0816E-02	4.0073E+00
^{135g} Ba	ΔCY	4.3342E-02	1.0816E-02	4.0073E+00
^{148g} Pr	ΔCY	1.0230E-02	3.4860E-03	2.9345E+00

²⁴² Cm En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	9.7133E-03	4.8463E-03	2.0043E+00
^{90g} Zr	ΔCY	9.7133E-03	4.8463E-03	2.0043E+00
^{91g} Y	ΔCY	1.2076E-02	4.2763E-03	2.8240E+00
^{91m} Y	ΔCY	6.9897E-03	2.5607E-03	2.7296E+00
^{93g} Y	ΔCY	1.6903E-02	5.4159E-03	3.1211E+00
^{93m} Y	ΔCY	6.3694E-03	2.4121E-03	2.6406E+00
^{109g} Ru	IY	8.9212E-03	1.7842E-02	5.0000E-01
^{109g} Ru	ΔIY	5.7096E-03	1.1419E-02	5.0000E-01
^{109g} Ru	CY	1.1646E-02	2.0567E-02	5.6624E-01
^{109g} Ru	ΔCY	7.4534E-03	1.1552E-02	6.4523E-01
^{109g} Rh	IY	6.2274E-03	1.2455E-02	5.0000E-01
^{109g} Rh	ΔIY	3.9855E-03	7.9710E-03	5.0000E-01
^{109g} Rh	CY	3.3022E-02	3.3022E-02	1.0000E+00
^{109g} Rh	ΔCY	2.1134E-02	2.1134E-02	1.0000E+00
^{109g} Pd	ΔCY	2.1795E-02	1.4044E-02	1.5520E+00
^{109g} Ag	ΔCY	2.1800E-02	1.4044E-02	1.5523E+00
^{109m} Ag	ΔCY	2.1787E-02	1.4037E-02	1.5521E+00
^{132g} I	ΔCY	3.0693E-02	9.8618E-03	3.1123E+00
^{133g} I	ΔCY	3.4667E-02	1.2183E-02	2.8455E+00
^{133g} Xe	ΔCY	3.6130E-02	1.2119E-02	2.9812E+00
^{135g} Cs	ΔCY	4.3284E-02	1.0525E-02	4.1126E+00
^{135g} Ba	ΔCY	4.3295E-02	1.0525E-02	4.1136E+00
^{148g} Pr	ΔCY	6.7276E-03	4.0425E-03	1.6642E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²⁴³ Cm En = 0.0253 eV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	7.2737E-03	3.6366E-03	2.0001E+00
^{90g} Zr	ΔCY	7.2737E-03	3.6366E-03	2.0001E+00
^{91g} Y	ΔCY	7.3933E-03	1.2699E-03	5.8218E+00
^{91m} Y	ΔCY	4.2877E-03	7.9234E-04	5.4115E+00
^{93g} Y	ΔCY	1.1482E-02	1.9214E-03	5.9761E+00
^{93m} Y	ΔCY	4.0464E-03	7.7834E-04	5.1988E+00
^{109g} Ru	IY	1.2055E-02	2.4109E-02	5.0000E-01
^{109g} Ru	ΔIY	7.7150E-03	1.5430E-02	5.0000E-01
^{109g} Ru	CY	1.6323E-02	2.8377E-02	5.7521E-01
^{109g} Ru	ΔCY	1.0446E-02	1.5670E-02	6.6666E-01
^{109g} Rh	IY	6.0073E-03	1.2015E-02	4.9999E-01
^{109g} Rh	ΔIY	3.8447E-03	7.6895E-03	4.9999E-01
^{109g} Rh	CY	4.0392E-02	4.0392E-02	1.0000E+00
^{109g} Rh	ΔCY	2.5851E-02	2.5851E-02	1.0000E+00
^{109g} Pd	ΔCY	2.6273E-02	1.7458E-02	1.5049E+00
^{109g} Ag	ΔCY	2.6274E-02	1.7458E-02	1.5050E+00
^{109m} Ag	ΔCY	2.6261E-02	1.7449E-02	1.5050E+00
^{132g} I	ΔCY	3.0357E-02	2.3640E-03	1.2841E+01
^{133g} I	ΔCY	3.6303E-02	9.6629E-03	3.7569E+00
^{133g} Xe	ΔCY	3.6750E-02	9.6237E-03	3.8187E+00
^{135g} Cs	ΔCY	3.7813E-02	6.4541E-03	5.8587E+00
^{135g} Ba	ΔCY	3.7814E-02	6.4541E-03	5.8588E+00
^{148g} Pr	ΔCY	1.2679E-02	4.3469E-03	2.9167E+00

²⁴³ Cm En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	1.0242E-02	3.6789E-03	2.7840E+00
^{90g} Zr	ΔCY	1.0242E-02	3.6789E-03	2.7840E+00
^{91g} Y	ΔCY	1.2161E-02	6.0523E-03	2.0093E+00
^{91m} Y	ΔCY	7.0488E-03	3.6011E-03	1.9574E+00
^{93g} Y	ΔCY	1.6661E-02	5.5003E-03	3.0292E+00
^{93m} Y	ΔCY	6.0338E-03	2.0887E-03	2.8888E+00
^{109g} Ru	IY	8.1943E-03	1.6389E-02	5.0000E-01
^{109g} Ru	ΔIY	5.2443E-03	1.0489E-02	5.0000E-01
^{109g} Ru	CY	1.0094E-02	1.8288E-02	5.5193E-01
^{109g} Ru	ΔCY	6.4601E-03	1.0559E-02	6.1181E-01
^{109g} Rh	IY	6.2831E-03	1.2566E-02	5.0000E-01
^{109g} Rh	ΔIY	4.0212E-03	8.0423E-03	5.0000E-01
^{109g} Rh	CY	3.0854E-02	3.0854E-02	1.0000E+00
^{109g} Rh	ΔCY	1.9747E-02	1.9747E-02	1.0000E+00
^{109g} Pd	ΔCY	2.0476E-02	1.3284E-02	1.5413E+00
^{109g} Ag	ΔCY	2.0480E-02	1.3284E-02	1.5417E+00
^{109m} Ag	ΔCY	2.0468E-02	1.3278E-02	1.5416E+00
^{132g} I	ΔCY	2.4549E-02	7.9984E-03	3.0692E+00
^{133g} I	ΔCY	3.0415E-02	9.9195E-03	3.0661E+00
^{133g} Xe	ΔCY	3.1234E-02	9.8445E-03	3.1727E+00
^{135g} Cs	ΔCY	4.1438E-02	1.0208E-02	4.0596E+00
^{135g} Ba	ΔCY	4.1441E-02	1.0208E-02	4.0599E+00
^{148g} Pr	ΔCY	1.1305E-02	4.3513E-03	2.5981E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²⁴⁴ Cm En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	8.9665E-03	4.4826E-03	2.0003E+00
^{90g} Zr	ΔCY	8.9665E-03	4.4826E-03	2.0003E+00
^{91g} Y	ΔCY	1.0885E-02	5.4335E-03	2.0033E+00
^{91m} Y	ΔCY	6.3117E-03	3.2329E-03	1.9524E+00
^{93g} Y	ΔCY	1.5465E-02	5.2772E-03	2.9306E+00
^{93m} Y	ΔCY	5.4871E-03	1.9068E-03	2.8776E+00
^{109g} Ru	IY	1.0278E-02	2.0556E-02	5.0000E-01
^{109g} Ru	ΔIY	6.5780E-03	1.3156E-02	5.0000E-01
^{109g} Ru	CY	1.4631E-02	2.4908E-02	5.8740E-01
^{109g} Ru	ΔCY	9.3639E-03	1.3448E-02	6.9632E-01
^{109g} Rh	IY	4.3493E-03	8.6986E-03	5.0000E-01
^{109g} Rh	ΔIY	2.7836E-03	5.5671E-03	5.0000E-01
^{109g} Rh	CY	3.3608E-02	3.3608E-02	1.0000E+00
^{109g} Rh	ΔCY	2.1509E-02	2.1509E-02	1.0000E+00
^{109g} Pd	ΔCY	2.1767E-02	1.4556E-02	1.4954E+00
^{109g} Ag	ΔCY	2.1768E-02	1.4556E-02	1.4955E+00
^{109m} Ag	ΔCY	2.1757E-02	1.4548E-02	1.4955E+00
^{132g} I	ΔCY	2.0260E-02	6.8299E-03	2.9663E+00
^{133g} I	ΔCY	2.5207E-02	7.4894E-03	3.3657E+00
^{133g} Xe	ΔCY	2.5483E-02	7.4194E-03	3.4347E+00
^{135g} Cs	ΔCY	3.6321E-02	9.0260E-03	4.0240E+00
^{135g} Ba	ΔCY	3.6321E-02	9.0260E-03	4.0241E+00
^{148g} Pr	ΔCY	1.3112E-02	4.5516E-03	2.8809E+00

²⁴⁵ Cm En = 0.0253 eV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	6.9132E-03	1.1882E-03	5.8182E+00
^{90g} Zr	ΔCY	6.9132E-03	1.1882E-03	5.8182E+00
^{91g} Y	ΔCY	5.6333E-03	5.2806E-04	1.0668E+01
^{91m} Y	ΔCY	3.2673E-03	3.6727E-04	8.8962E+00
^{93g} Y	ΔCY	1.1626E-02	1.9771E-03	5.8804E+00
^{93m} Y	ΔCY	4.0437E-03	7.7647E-04	5.2077E+00
^{109g} Ru	IY	1.1795E-02	2.3589E-02	5.0000E-01
^{109g} Ru	ΔIY	7.5485E-03	1.5097E-02	5.0000E-01
^{109g} Ru	CY	2.3450E-02	3.5225E-02	6.6574E-01
^{109g} Ru	ΔCY	1.5008E-02	1.5332E-02	9.7885E-01
^{109g} Rh	IY	9.3696E-03	1.1272E-02	8.3125E-01
^{109g} Rh	ΔIY	5.9965E-03	7.2139E-03	8.3125E-01
^{109g} Rh	CY	4.6517E-02	4.6517E-02	1.0000E+00
^{109g} Rh	ΔCY	2.9771E-02	2.9771E-02	1.0000E+00
^{109g} Pd	ΔCY	2.9816E-02	1.6945E-02	1.7596E+00
^{109g} Ag	ΔCY	2.9816E-02	1.6945E-02	1.7596E+00
^{109m} Ag	ΔCY	2.9802E-02	1.6936E-02	1.7596E+00
^{132g} I	ΔCY	2.6687E-02	1.4409E-03	1.8521E+01
^{133g} I	ΔCY	3.4925E-02	5.2130E-03	6.6997E+00
^{133g} Xe	ΔCY	3.4993E-02	5.4072E-03	6.4716E+00
^{135g} Cs	ΔCY	4.3522E-02	1.9032E-03	2.2868E+01
^{135g} Ba	ΔCY	4.3522E-02	1.9032E-03	2.2868E+01
^{148g} Pr	ΔCY	1.4003E-02	4.8134E-03	2.9091E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²⁴⁶ Cm En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	6.4284E-03	3.2142E-03	2.0000E+00
^{90g} Zr	ΔCY	6.4284E-03	3.2142E-03	2.0000E+00
^{91g} Y	ΔCY	8.3455E-03	4.1721E-03	2.0003E+00
^{91m} Y	ΔCY	4.8403E-03	2.4824E-03	1.9499E+00
^{93g} Y	ΔCY	1.2461E-02	4.4260E-03	2.8154E+00
^{93m} Y	ΔCY	4.3344E-03	1.5680E-03	2.7642E+00
^{109g} Ru	IY	1.2557E-02	2.5114E-02	5.0000E-01
^{109g} Ru	ΔIY	8.0364E-03	1.6073E-02	5.0000E-01
^{109g} Ru	CY	3.1245E-02	4.3782E-02	7.1364E-01
^{109g} Ru	ΔCY	1.9997E-02	1.6636E-02	1.2020E+00
^{109g} Rh	IY	1.6164E-03	3.2329E-03	5.0000E-01
^{109g} Rh	ΔIY	1.0345E-03	2.0690E-03	5.0000E-01
^{109g} Rh	CY	4.7034E-02	4.7034E-02	1.0000E+00
^{109g} Rh	ΔCY	3.0102E-02	3.0102E-02	1.0000E+00
^{109g} Pd	ΔCY	3.0125E-02	1.6765E-02	1.7969E+00
^{109g} Ag	ΔCY	3.0125E-02	1.6765E-02	1.7969E+00
^{109m} Ag	ΔCY	3.0110E-02	1.6756E-02	1.7970E+00
^{132g} I	ΔCY	1.7112E-02	8.4068E-03	2.0354E+00
^{133g} I	ΔCY	2.2237E-02	6.5856E-03	3.3766E+00
^{133g} Xe	ΔCY	2.2267E-02	6.5075E-03	3.4217E+00
^{135g} Cs	ΔCY	3.3752E-02	8.4324E-03	4.0027E+00
^{135g} Ba	ΔCY	3.3752E-02	8.4324E-03	4.0027E+00
^{148g} Pr	ΔCY	1.5967E-02	5.4510E-03	2.9292E+00

²⁴⁸ Cm En = 500.0 keV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	4.3361E-03	3.0488E-03	1.4222E+00
^{90g} Zr	ΔCY	4.3361E-03	3.0488E-03	1.4222E+00
^{91g} Y	ΔCY	5.6073E-03	2.8036E-03	2.0000E+00
^{91m} Y	ΔCY	3.2522E-03	1.6681E-03	1.9496E+00
^{93g} Y	ΔCY	9.2247E-03	4.6051E-03	2.0031E+00
^{93m} Y	ΔCY	3.1940E-03	1.6037E-03	1.9916E+00
^{109g} Ru	IY	8.0816E-03	1.6163E-02	5.0000E-01
^{109g} Ru	ΔIY	5.1722E-03	1.0344E-02	5.0000E-01
^{109g} Ru	CY	4.9200E-02	5.7183E-02	8.6040E-01
^{109g} Ru	ΔCY	3.1488E-02	1.4001E-02	2.2490E+00
^{109g} Rh	IY	2.9217E-04	5.8434E-04	5.0000E-01
^{109g} Rh	ΔIY	1.8699E-04	3.7398E-04	5.0000E-01
^{109g} Rh	CY	5.7866E-02	5.7866E-02	1.0000E+00
^{109g} Rh	ΔCY	3.7034E-02	3.7034E-02	1.0000E+00
^{109g} Pd	ΔCY	3.7035E-02	1.4006E-02	2.6443E+00
^{109g} Ag	ΔCY	3.7035E-02	1.4006E-02	2.6443E+00
^{109m} Ag	ΔCY	3.7018E-02	1.3999E-02	2.6444E+00
^{132g} I	ΔCY	1.3319E-02	6.6416E-03	2.0055E+00
^{133g} I	ΔCY	1.8445E-02	6.8210E-03	2.7042E+00
^{133g} Xe	ΔCY	1.8447E-02	6.6969E-03	2.7545E+00
^{135g} Cs	ΔCY	3.0058E-02	7.5143E-03	4.0002E+00
^{135g} Ba	ΔCY	3.0058E-02	7.5143E-03	4.0002E+00
^{148g} Pr	ΔCY	1.7518E-02	4.3141E-03	4.0607E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²⁴⁹ Cf En = 0.0253 eV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	3.7680E-03	3.7649E-03	1.0008E+00
^{90g} Zr	ΔCY	3.7680E-03	3.7649E-03	1.0008E+00
^{91g} Y	ΔCY	5.2989E-03	3.3001E-04	1.6057E+01
^{91m} Y	ΔCY	3.0711E-03	2.6631E-04	1.1532E+01
^{93g} Y	ΔCY	6.8902E-03	1.6814E-03	4.0978E+00
^{93m} Y	ΔCY	2.5913E-03	8.4315E-04	3.0734E+00
^{109g} Ru	IY	1.5184E-02	3.0368E-02	5.0000E-01
^{109g} Ru	ΔIY	9.7177E-03	1.9435E-02	5.0000E-01
^{109g} Ru	CY	2.9110E-02	4.4279E-02	6.5743E-01
^{109g} Ru	ΔCY	1.8631E-02	1.9939E-02	9.3440E-01
^{109g} Rh	IY	5.5385E-03	1.1105E-02	4.9875E-01
^{109g} Rh	ΔIY	3.5447E-03	7.1071E-03	4.9875E-01
^{109g} Rh	CY	5.5399E-02	5.5399E-02	1.0000E+00
^{109g} Rh	ΔCY	3.5455E-02	3.5455E-02	1.0000E+00
^{109g} Pd	ΔCY	3.5699E-02	2.1168E-02	1.6865E+00
^{109g} Ag	ΔCY	3.5700E-02	2.1168E-02	1.6865E+00
^{109m} Ag	ΔCY	3.5683E-02	2.1158E-02	1.6865E+00
^{132g} I	ΔCY	2.6206E-02	3.5535E-03	7.3746E+00
^{133g} I	ΔCY	3.2103E-02	7.7917E-03	4.1201E+00
^{133g} Xe	ΔCY	3.3570E-02	7.9630E-03	4.2157E+00
^{135g} Cs	ΔCY	3.4675E-02	1.6166E-03	2.1449E+01
^{135g} Ba	ΔCY	3.4683E-02	1.6166E-03	2.1454E+01
^{148g} Pr	ΔCY	1.1593E-02	4.0386E-03	2.8706E+00

²⁵¹ Cf En = 0.0252 eV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	1.8961E-03	1.3332E-03	1.4222E+00
^{90g} Zr	ΔCY	1.8961E-03	1.3332E-03	1.4222E+00
^{91g} Y	ΔCY	3.3285E-03	3.1198E-04	1.0669E+01
^{91m} Y	ΔCY	1.9305E-03	2.1698E-04	8.8969E+00
^{93g} Y	ΔCY	4.4917E-03	1.5898E-03	2.8254E+00
^{93m} Y	ΔCY	1.5649E-03	5.6356E-04	2.7768E+00
^{109g} Ru	IY	1.4297E-02	2.8593E-02	5.0000E-01
^{109g} Ru	ΔIY	9.1498E-03	1.8300E-02	5.0000E-01
^{109g} Ru	CY	3.3311E-02	4.7576E-02	7.0016E-01
^{109g} Ru	ΔCY	2.1319E-02	1.8813E-02	1.1332E+00
^{109g} Rh	IY	2.2969E-03	4.5951E-03	4.9986E-01
^{109g} Rh	ΔIY	1.4700E-03	2.9408E-03	4.9986E-01
^{109g} Rh	CY	5.2202E-02	5.2202E-02	1.0000E+00
^{109g} Rh	ΔCY	3.3410E-02	3.3410E-02	1.0000E+00
^{109g} Pd	ΔCY	3.3449E-02	1.9042E-02	1.7566E+00
^{109g} Ag	ΔCY	3.3449E-02	1.9042E-02	1.7566E+00
^{109m} Ag	ΔCY	3.3433E-02	1.9032E-02	1.7567E+00
^{132g} I	ΔCY	2.0579E-02	2.5481E-03	8.0764E+00
^{133g} I	ΔCY	2.5024E-02	6.5093E-03	3.8443E+00
^{133g} Xe	ΔCY	2.5041E-02	6.4631E-03	3.8744E+00
^{135g} Cs	ΔCY	2.8375E-02	3.5457E-03	8.0026E+00
^{135g} Ba	ΔCY	2.8375E-02	3.5457E-03	8.0026E+00
^{148g} Pr	ΔCY	1.9916E-02	6.7937E-03	2.9315E+00

Table 2. Corrections to the NFY sublibrary (cont.)

²⁵⁴ Es En = 0.0253 eV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	7.2328E-04	5.0855E-04	1.4222E+00
^{90g} Zr	ΔCY	7.2328E-04	5.0855E-04	1.4222E+00
^{91g} Y	ΔCY	1.7647E-03	2.2056E-04	8.0010E+00
^{91m} Y	ΔCY	1.0235E-03	1.4377E-04	7.1190E+00
^{93g} Y	ΔCY	3.0135E-03	2.1016E-03	1.4339E+00
^{93m} Y	ΔCY	1.0465E-03	7.2549E-04	1.4424E+00
^{109g} Ru	IY	9.8196E-03	1.9639E-02	5.0000E-01
^{109g} Ru	ΔIY	6.2846E-03	1.2569E-02	5.0000E-01
^{109g} Ru	CY	2.4559E-02	3.4348E-02	7.1498E-01
^{109g} Ru	ΔCY	1.5717E-02	1.3016E-02	1.2075E+00
^{109g} Rh	IY	1.4023E-03	2.8048E-03	4.9995E-01
^{109g} Rh	ΔIY	8.9746E-04	1.7951E-03	4.9995E-01
^{109g} Rh	CY	3.7183E-02	3.7183E-02	1.0000E+00
^{109g} Rh	ΔCY	2.3797E-02	2.3797E-02	1.0000E+00
^{109g} Pd	ΔCY	2.3818E-02	1.3140E-02	1.8127E+00
^{109g} Ag	ΔCY	2.3818E-02	1.3140E-02	1.8127E+00
^{109m} Ag	ΔCY	2.3807E-02	1.3133E-02	1.8127E+00
^{132g} I	ΔCY	3.0693E-02	3.8075E-03	8.0612E+00
^{133g} I	ΔCY	3.2354E-02	8.4554E-03	3.8264E+00
^{133g} Xe	ΔCY	3.2370E-02	8.3933E-03	3.8567E+00
^{135g} Cs	ΔCY	3.5048E-02	4.3801E-03	8.0017E+00
^{135g} Ba	ΔCY	3.5048E-02	4.3801E-03	8.0017E+00
^{148g} Pr	ΔCY	1.5858E-02	5.4140E-03	2.9290E+00

²⁵⁵ Fm En = 0.0253 eV				
Material	Quantity	ENDF/B-VIII.0 (current)	ENDF/B-VIII.0 (mod)	Ratio (current/mod)
^{90g} Y	ΔCY	5.4845E-04	3.8562E-04	1.4223E+00
^{90g} Zr	ΔCY	5.4845E-04	3.8562E-04	1.4223E+00
^{91g} Y	ΔCY	7.1592E-04	7.1541E-04	1.0007E+00
^{91m} Y	ΔCY	4.1520E-04	4.2352E-04	9.8034E-01
^{93g} Y	ΔCY	1.2196E-03	8.2343E-04	1.4811E+00
^{93m} Y	ΔCY	4.2959E-04	2.8504E-04	1.5071E+00
^{109g} Ru	IY	9.0845E-03	1.8169E-02	5.0000E-01
^{109g} Ru	ΔIY	5.8141E-03	1.1628E-02	5.0000E-01
^{109g} Ru	CY	1.6455E-02	2.5528E-02	6.4456E-01
^{109g} Ru	ΔCY	1.0531E-02	1.2091E-02	8.7100E-01
^{109g} Rh	IY	1.7056E-03	3.4112E-03	5.0000E-01
^{109g} Rh	ΔIY	1.0916E-03	2.1832E-03	5.0001E-01
^{109g} Rh	CY	2.8950E-02	2.8950E-02	1.0000E+00
^{109g} Rh	ΔCY	1.8528E-02	1.8528E-02	1.0000E+00
^{109g} Pd	ΔCY	1.8551E-02	1.2286E-02	1.5099E+00
^{109g} Ag	ΔCY	1.8551E-02	1.2286E-02	1.5099E+00
^{109m} Ag	ΔCY	1.8542E-02	1.2280E-02	1.5100E+00
^{132g} I	ΔCY	3.0756E-02	3.8138E-03	8.0645E+00
^{133g} I	ΔCY	3.4693E-02	9.0989E-03	3.8129E+00
^{133g} Xe	ΔCY	3.4704E-02	9.0301E-03	3.8431E+00
^{135g} Cs	ΔCY	3.9446E-02	4.9303E-03	8.0006E+00
^{135g} Ba	ΔCY	3.9446E-02	4.9303E-03	8.0006E+00
^{148g} Pr	ΔCY	1.0375E-02	3.5347E-03	2.9353E+00

Table 3. Corrections to the SFY sublibrary.

²³⁸ U		SF		
Material	Quantity	ENDF/B-VIII.0	Updated Mod	Ratio (current/mod)
^{90g} Y	ΔCY	3.4761E-02	4.3451E-03	8.0000E+00
^{90g} Zr	ΔCY	3.4761E-02	4.3451E-03	8.0000E+00
^{91g} Y	ΔCY	3.7255E-02	4.6568E-03	8.0000E+00
^{91m} Y	ΔCY	2.1608E-02	3.0356E-03	7.1182E+00
^{93g} Y	ΔCY	3.9780E-02	1.4294E-02	2.7831E+00
^{93m} Y	ΔCY	1.3765E-02	5.0596E-03	2.7206E+00
^{109g} Ru	IY	1.9900E-08	3.9801E-08	5.0000E-01
^{109g} Ru	ΔIY	1.2736E-08	2.5472E-08	5.0000E-01
^{109g} Ru	CY	1.1853E-04	1.1807E-04	1.0039E+00
^{109g} Ru	ΔCY	7.5861E-05	7.5540E-05	1.0042E+00
^{109g} Rh	IY	0.0000E+00	0.0000E+00	NAN
^{109g} Rh	ΔIY	0.0000E+00	0.0000E+00	NAN
^{109g} Rh	CY	1.1855E-04	1.1855E-04	1.0000E+00
^{109g} Rh	ΔCY	7.5873E-05	7.5873E-05	1.0000E+00
^{109g} Pd	ΔCY	7.5873E-05	7.5540E-05	1.0044E+00
^{109g} Ag	ΔCY	7.5873E-05	7.5540E-05	1.0044E+00
^{109m} Ag	ΔCY	7.5837E-05	7.5503E-05	1.0044E+00
^{132g} I	ΔCY	2.1288E-02	2.6608E-03	8.0008E+00
^{133g} I	ΔCY	3.5837E-02	1.1447E-02	3.1307E+00
^{133g} Xe	ΔCY	3.5838E-02	1.1280E-02	3.1769E+00
^{135g} Cs	ΔCY	3.3364E-02	3.1280E-03	1.0666E+01
^{135g} Ba	ΔCY	3.3364E-02	3.1280E-03	1.0666E+01
^{148g} Pr	ΔCY	1.9463E-02	6.9897E-03	2.7846E+00

²⁴⁴ Cm		SF		
Material	Quantity	ENDF/B-VIII.0	Updated Mod	Ratio (current/mod)
^{90g} Y	ΔCY	5.1641E-03	8.8748E-04	5.8188E+00
^{90g} Zr	ΔCY	5.1641E-03	8.8748E-04	5.8188E+00
^{91g} Y	ΔCY	5.2799E-03	9.0616E-04	5.8267E+00
^{91m} Y	ΔCY	3.0617E-03	5.6538E-04	5.4153E+00
^{93g} Y	ΔCY	8.3074E-03	3.9429E-03	2.1069E+00
^{93m} Y	ΔCY	2.9432E-03	1.3868E-03	2.1223E+00
^{109g} Ru	IY	1.7276E-02	3.4552E-02	5.0000E-01
^{109g} Ru	ΔIY	1.1057E-02	2.2114E-02	5.0000E-01
^{109g} Ru	CY	2.3629E-02	4.0903E-02	5.7768E-01
^{109g} Ru	ΔCY	1.5122E-02	2.2297E-02	6.7821E-01
^{109g} Rh	IY	4.4814E-03	8.9628E-03	5.0000E-01
^{109g} Rh	ΔIY	2.8681E-03	5.7362E-03	5.0000E-01
^{109g} Rh	CY	4.9868E-02	4.9868E-02	1.0000E+00
^{109g} Rh	ΔCY	3.1915E-02	3.1915E-02	1.0000E+00
^{109g} Pd	ΔCY	3.2080E-02	2.3024E-02	1.3934E+00
^{109g} Ag	ΔCY	3.2080E-02	2.3024E-02	1.3934E+00
^{109m} Ag	ΔCY	3.2065E-02	2.3012E-02	1.3934E+00
^{132g} I	ΔCY	2.6784E-02	2.4980E-03	1.0722E+01
^{133g} I	ΔCY	3.6127E-02	9.4438E-03	3.8255E+00
^{133g} Xe	ΔCY	3.6230E-02	9.3813E-03	3.8619E+00
^{135g} Cs	ΔCY	4.7893E-02	2.9909E-03	1.6013E+01
^{135g} Ba	ΔCY	4.7893E-02	2.9909E-03	1.6013E+01
^{148g} Pr	ΔCY	9.7859E-03	3.3138E-03	2.9531E+00

Table 3. Corrections to the SFY sublibrary (cont.)

²⁴⁶ Cm		SF		
Material	Quantity	ENDF/B-VIII.0	Updated Mod	Ratio (current/mod)
^{90g} Y	ΔCY	4.0657E-03	2.8587E-03	1.4222E+00
^{90g} Zr	ΔCY	4.0657E-03	2.8587E-03	1.4222E+00
^{91g} Y	ΔCY	4.4867E-03	3.1542E-03	1.4225E+00
^{91m} Y	ΔCY	2.6022E-03	1.8705E-03	1.3912E+00
^{93g} Y	ΔCY	7.9603E-03	5.5114E-03	1.4443E+00
^{93m} Y	ΔCY	2.7732E-03	1.9031E-03	1.4572E+00
^{109g} Ru	IY	1.7358E-02	3.4716E-02	5.0000E-01
^{109g} Ru	ΔIY	1.1109E-02	2.2218E-02	5.0000E-01
^{109g} Ru	CY	3.3206E-02	5.0549E-02	6.5691E-01
^{109g} Ru	ΔCY	2.1252E-02	2.2515E-02	9.4390E-01
^{109g} Rh	IY	2.2555E-03	4.5109E-03	5.0000E-01
^{109g} Rh	ΔIY	1.4435E-03	2.8870E-03	5.0000E-01
^{109g} Rh	CY	5.5075E-02	5.5075E-02	1.0000E+00
^{109g} Rh	ΔCY	3.5248E-02	3.5248E-02	1.0000E+00
^{109g} Pd	ΔCY	3.5282E-02	2.2699E-02	1.5543E+00
^{109g} Ag	ΔCY	3.5282E-02	2.2699E-02	1.5543E+00
^{109m} Ag	ΔCY	3.5265E-02	2.2688E-02	1.5544E+00
^{132g} I	ΔCY	2.9763E-02	3.6827E-03	8.0818E+00
^{133g} I	ΔCY	3.6478E-02	8.6551E-03	4.2146E+00
^{133g} Xe	ΔCY	3.6513E-02	8.6323E-03	4.2298E+00
^{135g} Cs	ΔCY	4.2409E-02	7.2859E-03	5.8207E+00
^{135g} Ba	ΔCY	4.2409E-02	7.2859E-03	5.8207E+00
^{148g} Pr	ΔCY	1.1772E-02	4.0163E-03	2.9310E+00

²⁴⁸ Cm		SF		
Material	Quantity	ENDF/B-VIII.0	Updated Mod	Ratio (current/mod)
^{90g} Y	ΔCY	3.0823E-03	2.1672E-03	1.4222E+00
^{90g} Zr	ΔCY	3.0823E-03	2.1672E-03	1.4222E+00
^{91g} Y	ΔCY	3.8161E-03	3.5770E-04	1.0669E+01
^{91m} Y	ΔCY	2.2133E-03	2.4878E-04	8.8966E+00
^{93g} Y	ΔCY	7.6496E-03	5.3139E-03	1.4395E+00
^{93m} Y	ΔCY	2.6610E-03	1.8347E-03	1.4504E+00
^{109g} Ru	IY	1.3630E-02	2.7261E-02	5.0000E-01
^{109g} Ru	ΔIY	8.7235E-03	1.7447E-02	5.0000E-01
^{109g} Ru	CY	4.4522E-02	5.8098E-02	7.6632E-01
^{109g} Ru	ΔCY	2.8494E-02	1.8833E-02	1.5129E+00
^{109g} Rh	IY	1.2007E-03	2.4016E-03	4.9997E-01
^{109g} Rh	ΔIY	7.6846E-04	1.5370E-03	4.9997E-01
^{109g} Rh	CY	6.0554E-02	6.0554E-02	1.0000E+00
^{109g} Rh	ΔCY	3.8754E-02	3.8754E-02	1.0000E+00
^{109g} Pd	ΔCY	3.8764E-02	1.8896E-02	2.0514E+00
^{109g} Ag	ΔCY	3.8764E-02	1.8896E-02	2.0514E+00
^{109m} Ag	ΔCY	3.8746E-02	1.8887E-02	2.0515E+00
^{132g} I	ΔCY	2.7739E-02	2.5924E-03	1.0700E+01
^{133g} I	ΔCY	3.3686E-02	7.6638E-03	4.3955E+00
^{133g} Xe	ΔCY	3.3691E-02	7.6586E-03	4.3991E+00
^{135g} Cs	ΔCY	3.6745E-02	3.4447E-03	1.0667E+01
^{135g} Ba	ΔCY	3.6745E-02	3.4447E-03	1.0667E+01
^{148g} Pr	ΔCY	1.6172E-02	5.6230E-03	2.8761E+00

Table 3. Corrections to the SFY sublibrary (cont.)

²⁵⁰ Cf		SF		
Material	Quantity	ENDF/B-VIII.0	Updated Mod	Ratio (current/mod)
^{90g} Y	ΔCY	3.2880E-03	2.3118E-03	1.4223E+00
^{90g} Zr	ΔCY	3.2880E-03	2.3118E-03	1.4223E+00
^{91g} Y	ΔCY	3.6257E-03	3.3964E-04	1.0675E+01
^{91m} Y	ΔCY	2.1027E-03	2.3622E-04	8.9013E+00
^{93g} Y	ΔCY	6.0925E-03	5.8905E-03	1.0343E+00
^{93m} Y	ΔCY	2.1394E-03	2.0257E-03	1.0561E+00
^{109g} Ru	IY	1.9709E-02	3.9418E-02	5.0000E-01
^{109g} Ru	ΔIY	1.2614E-02	2.5227E-02	5.0000E-01
^{109g} Ru	CY	2.7610E-02	4.7316E-02	5.8353E-01
^{109g} Ru	ΔCY	1.7671E-02	2.5477E-02	6.9361E-01
^{109g} Rh	IY	7.6904E-03	1.5381E-02	5.0000E-01
^{109g} Rh	ΔIY	4.9219E-03	9.8438E-03	5.0000E-01
^{109g} Rh	CY	6.2700E-02	6.2700E-02	1.0000E+00
^{109g} Rh	ΔCY	4.0128E-02	4.0128E-02	1.0000E+00
^{109g} Pd	ΔCY	4.0519E-02	2.7314E-02	1.4835E+00
^{109g} Ag	ΔCY	4.0520E-02	2.7314E-02	1.4835E+00
^{109m} Ag	ΔCY	4.0500E-02	2.7300E-02	1.4835E+00
^{132g} I	ΔCY	1.5688E-02	1.4865E-03	1.0554E+01
^{133g} I	ΔCY	2.4876E-02	7.2380E-03	3.4369E+00
^{133g} Xe	ΔCY	2.4986E-02	7.1622E-03	3.4886E+00
^{135g} Cs	ΔCY	2.9715E-02	5.0970E-03	5.8299E+00
^{135g} Ba	ΔCY	2.9715E-02	5.0970E-03	5.8299E+00
^{148g} Pr	ΔCY	2.0068E-02	6.7957E-03	2.9530E+00

²⁵² Cf		SF		
Material	Quantity	ENDF/B-VIII.0	Updated Mod	Ratio (current/mod)
^{90g} Y	ΔCY	3.3437E-03	2.3510E-03	1.4222E+00
^{90g} Zr	ΔCY	3.3437E-03	2.3510E-03	1.4222E+00
^{91g} Y	ΔCY	3.8212E-03	2.3878E-04	1.6003E+01
^{91m} Y	ΔCY	2.2163E-03	1.9278E-04	1.1497E+01
^{93g} Y	ΔCY	5.9053E-03	7.3122E-04	8.0760E+00
^{93m} Y	ΔCY	2.0538E-03	3.1641E-04	6.4909E+00
^{109g} Ru	IY	1.4937E-02	2.9875E-02	5.0000E-01
^{109g} Ru	ΔIY	9.5599E-03	1.9120E-02	5.0000E-01
^{109g} Ru	CY	3.5331E-02	5.0232E-02	7.0336E-01
^{109g} Ru	ΔCY	2.2612E-02	1.9395E-02	1.1659E+00
^{109g} Rh	IY	6.5162E-03	9.0533E-03	7.1976E-01
^{109g} Rh	ΔIY	1.4987E-03	5.7941E-03	2.5866E-01
^{109g} Rh	CY	5.9322E-02	5.9322E-02	1.0000E+00
^{109g} Rh	ΔCY	3.7966E-02	3.7966E-02	1.0000E+00
^{109g} Pd	ΔCY	3.8018E-02	2.0242E-02	1.8781E+00
^{109g} Ag	ΔCY	3.8018E-02	2.0242E-02	1.8781E+00
^{109m} Ag	ΔCY	3.7999E-02	2.0232E-02	1.8782E+00
^{132g} I	ΔCY	1.3767E-02	8.5721E-04	1.6061E+01
^{133g} I	ΔCY	2.0157E-02	6.1191E-03	3.2942E+00
^{133g} Xe	ΔCY	2.0172E-02	6.0404E-03	3.3395E+00
^{135g} Cs	ΔCY	2.6816E-02	1.6754E-03	1.6006E+01
^{135g} Ba	ΔCY	2.6816E-02	1.6754E-03	1.6006E+01
^{148g} Pr	ΔCY	2.3437E-02	7.9904E-03	2.9331E+00

Table 3. Corrections to the SFY sublibrary (cont.)

²⁵³ Es		SF		
Material	Quantity	ENDF/B-VIII.0	Updated Mod	Ratio (current/mod)
^{90g} Y	ΔCY	2.9342E-03	1.4667E-03	2.0005E+00
^{90g} Zr	ΔCY	2.9342E-03	1.4667E-03	2.0005E+00
^{91g} Y	ΔCY	3.4089E-03	4.2520E-04	8.0172E+00
^{91m} Y	ΔCY	1.9766E-03	2.7717E-04	7.1312E+00
^{93g} Y	ΔCY	4.3543E-03	1.4884E-03	2.9255E+00
^{93m} Y	ΔCY	1.5435E-03	5.3697E-04	2.8744E+00
^{109g} Ru	IY	1.5312E-02	3.0624E-02	5.0000E-01
^{109g} Ru	ΔIY	9.7996E-03	1.9599E-02	5.0000E-01
^{109g} Ru	CY	2.2861E-02	3.8167E-02	5.9898E-01
^{109g} Ru	ΔCY	1.4631E-02	1.9891E-02	7.3556E-01
^{109g} Rh	IY	8.0203E-03	1.6041E-02	5.0000E-01
^{109g} Rh	ΔIY	5.1330E-03	1.0266E-02	5.0000E-01
^{109g} Rh	CY	5.4213E-02	5.4213E-02	1.0000E+00
^{109g} Rh	ΔCY	3.4697E-02	3.4697E-02	1.0000E+00
^{109g} Pd	ΔCY	3.5332E-02	2.2389E-02	1.5781E+00
^{109g} Ag	ΔCY	3.5335E-02	2.2389E-02	1.5783E+00
^{109m} Ag	ΔCY	3.5317E-02	2.2378E-02	1.5782E+00
^{132g} I	ΔCY	1.6103E-02	2.6893E-03	5.9878E+00
^{133g} I	ΔCY	1.6947E-02	5.7980E-03	2.9228E+00
^{133g} Xe	ΔCY	1.7087E-02	5.7124E-03	2.9912E+00
^{135g} Cs	ΔCY	3.0098E-02	5.1436E-03	5.8515E+00
^{135g} Ba	ΔCY	3.0098E-02	5.1436E-03	5.8516E+00
^{148g} Pr	ΔCY	1.9967E-02	6.9922E-03	2.8557E+00

²⁵⁴ Fm		SF		
Material	Quantity	ENDF/B-VIII.0	Updated Mod	Ratio (current/mod)
^{90g} Y	ΔCY	1.2899E-03	9.0584E-04	1.4240E+00
^{90g} Zr	ΔCY	1.2899E-03	9.0584E-04	1.4240E+00
^{91g} Y	ΔCY	2.5278E-03	3.1363E-04	8.0598E+00
^{91m} Y	ΔCY	1.4644E-03	2.0448E-04	7.1614E+00
^{93g} Y	ΔCY	3.0805E-03	1.3713E-03	2.2465E+00
^{93m} Y	ΔCY	1.1268E-03	5.0762E-04	2.2197E+00
^{109g} Ru	IY	1.4039E-02	2.8079E-02	5.0000E-01
^{109g} Ru	ΔIY	8.9852E-03	1.7970E-02	5.0000E-01
^{109g} Ru	CY	1.8239E-02	3.2275E-02	5.6510E-01
^{109g} Ru	ΔCY	1.1673E-02	1.8170E-02	6.4241E-01
^{109g} Rh	IY	1.1305E-02	2.2609E-02	5.0000E-01
^{109g} Rh	ΔIY	3.6175E-03	1.4470E-02	2.5000E-01
^{109g} Rh	CY	5.4887E-02	5.4887E-02	1.0000E+00
^{109g} Rh	ΔCY	3.5128E-02	3.5128E-02	1.0000E+00
^{109g} Pd	ΔCY	3.6478E-02	2.3249E-02	1.5690E+00
^{109g} Ag	ΔCY	3.6490E-02	2.3249E-02	1.5695E+00
^{109m} Ag	ΔCY	3.6467E-02	2.3237E-02	1.5693E+00
^{132g} I	ΔCY	2.2170E-02	3.3080E-03	6.7018E+00
^{133g} I	ΔCY	2.7008E-02	8.8663E-03	3.0461E+00
^{133g} Xe	ΔCY	2.7779E-02	8.7990E-03	3.1570E+00
^{135g} Cs	ΔCY	2.8662E-02	2.6641E-03	1.0759E+01
^{135g} Ba	ΔCY	2.8665E-02	2.6641E-03	1.0760E+01
^{148g} Pr	ΔCY	1.3660E-02	5.2273E-03	2.6133E+00

Table 3. Corrections to the SFY sublibrary (cont.)

²⁵⁶ Fm		SF		
Material	Quantity	ENDF/B-VIII.0	Updated Mod	Ratio (current/mod)
^{90g} Y	ΔCY	1.2892E-03	9.0601E-04	1.4230E+00
^{90g} Zr	ΔCY	1.2892E-03	9.0601E-04	1.4230E+00
^{91g} Y	ΔCY	1.5498E-03	3.8593E-04	4.0158E+00
^{91m} Y	ΔCY	8.9839E-04	2.3418E-04	3.8363E+00
^{93g} Y	ΔCY	2.5833E-03	2.3900E-03	1.0809E+00
^{93m} Y	ΔCY	9.2422E-04	8.2564E-04	1.1194E+00
^{109g} Ru	IY	1.5672E-02	3.1345E-02	5.0000E-01
^{109g} Ru	ΔIY	1.0030E-02	2.0061E-02	5.0000E-01
^{109g} Ru	CY	2.8037E-02	4.3692E-02	6.4169E-01
^{109g} Ru	ΔCY	1.7944E-02	2.0261E-02	8.8564E-01
^{109g} Rh	IY	5.0636E-03	1.0127E-02	5.0000E-01
^{109g} Rh	ΔIY	3.2407E-03	6.4814E-03	5.0000E-01
^{109g} Rh	CY	5.3837E-02	5.3837E-02	1.0000E+00
^{109g} Rh	ΔCY	3.4456E-02	3.4456E-02	1.0000E+00
^{109g} Pd	ΔCY	3.4685E-02	2.1273E-02	1.6305E+00
^{109g} Ag	ΔCY	3.4686E-02	2.1273E-02	1.6305E+00
^{109m} Ag	ΔCY	3.4669E-02	2.1262E-02	1.6305E+00
^{132g} I	ΔCY	2.5662E-02	4.2914E-03	5.9799E+00
^{133g} I	ΔCY	2.4356E-02	7.1050E-03	3.4280E+00
^{133g} Xe	ΔCY	2.4497E-02	7.0327E-03	3.4834E+00
^{135g} Cs	ΔCY	3.9754E-02	6.8078E-03	5.8395E+00
^{135g} Ba	ΔCY	3.9755E-02	6.8078E-03	5.8396E+00
^{148g} Pr	ΔCY	1.4738E-02	5.0298E-03	2.9301E+00