**Nuclear Data Section**

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**Memo CP-D/1074**

**Date:** 2023-03-09

**To:** Distribution

**From:** N. Otsuka

**Subject: REACTION SF5=CHN coded without SF4=MASS**

REACTION SF4 must be always MASS when CHN is coded in SF5. I found REACTION codes of 16 datasets do not follow this rule, and summarized suggested corrections below. I cannot find the compiled data in the source articles for 13231.002, 40145.003 and M0199.002, and leave further investigations to the originating centres.

I performed similar checking for CHG in SF5, and confirmed that all such REACTION codes have ELEM in SF4 as should be.

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| **Dataset** | **REACTION** | **Suggested corrections** |
| 10897.003 | ((98-CF-249(N,F)ELEM/MASS,CUM,FY,,SPA)/ (98-CF-249(N,F)ELEM/MASS,CHN,FY,,SPA)) | Use FRC in SF8. (Table II). |
| 13231.002 | 92-U-238(N,F)ELEM/MASS,CHN,FY,,FIS | ? Must be checked at NNDC. |
| 13430.003 | (90-TH-232(N,F)ELEM/MASS,IND,FY,,SPA) /(90-TH-232(N,F),CHN,FY,,SPA) | Use FRC in SF8. (Table II). |
| 13434.002 | (92-U-233(N,F)ELEM/MASS,IND,FY,,SPA)/ (92-U-233(N,F),CHN,FY,,SPA) | Use FRC in SF8 (Table 4). |
| 13434.003 | (92-U-235(N,F)ELEM/MASS,IND,FY,,SPA)/ (92-U-235(N,F),CHN,FY,,SPA) | Use FRC in SF8 (Table 4). |
| 21595.002.1 | 92-U-235(N,F)ELEM/MASS,CHN,FY,,FST | SF4: ELEM/MASS -> MASS (Table 1).  Add pointer 2 to ELEMENT. |
| 21711.002.2 | (92-U-233(N,F)41-NB-92-M,IND,FY,,MXW)/ (92-U-233(N,F),CHN,FY,,MXW) | Use FRC in SF8 (Table 3).  DATA -> DATA-MAX. |
| 21711.002.4 | (92-U-233(N,F)41-NB-92-G,IND,FY,,MXW)/ (92-U-233(N,F),CHN,FY,,MXW) | Use FRC in SF8 (Table 3).  DATA -> DATA-MAX. |
| 21711.003.2 | (92-U-235(N,F)41-NB-92-M,IND,FY,,MXW)/ (92-U-235(N,F),CHN,FY,,MXW) | Use FRC in SF8 (Table 3).  DATA -> DATA-MAX. |
| 21711.003.4 | (92-U-235(N,F)41-NB-92-G,IND,FY,,MXW)/ (92-U-235(N,F),CHN,FY,,MXW) | Use FRC in SF8 (Table 3).  DATA -> DATA-MAX. |
| 21711.004.2 | (94-PU-239(N,F)41-NB-92-M,IND,FY,,MXW)/ (94-PU-239(N,F),CHN,FY,,MXW) | Use FRC in SF8 (Table 3). |
| 21711.004.4 | (94-PU-239(N,F)41-NB-92-G,IND,FY,,MXW)/ (94-PU-239(N,F),CHN,FY,,MXW) | Use FRC in SF8 (Table 3). |
| 21983.003 | 94-PU-242(N,F)ELEM/MASS,CHN,FY | SF4: ELEM/MASS -> MASS (Table II) |
| 40145.003 | (98-CF249(N,F)ELEM/MASS,IND,FY,,MXW)/ (98-CF-249(N,F)ELEM/MASS,CHN,FY,,MXW) | ? Must be checked at CJD. |
| L0095.003 | (92-U-238(G,F)MASS,CHN,FY,,BRA)/ (92-U-238(G,F)47-AG-112,CHN,FY,,BRA) | Use  (92-U-238(G,F)MASS,CHN,FY,,BRA)// (92-U-238(G,F)MASS,CHN,FY,,BRA).  with MASS-NM=97 and MASS-DN=112.  STATUS: Table 5 -> Table 2 |
| M0199.002 | 92-U-235(G,F)ELEM/MASS,CHN,FY,,BRA | ? Must be checked at CDFE. |

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