

Correction of Prompt Fission Neutron Spectrum Entries

Memo CP-D/701 Rev. (N. Otsuka, 2011-05-19)

As presented in WP2010-39 (=Memo CP-D/635), we need systematic revision of prompt fission neutron spectrum entries. Though this is an important quantity for applications, only area 3 entries and a part of 4 entries have been corrected since the 2010 NRDC Meeting. NNDC, NEA DB and CJD must give priority to revision of subentries listed in Memo CP-D/635.

Progress in correction of prompt fission neutron spectrum entry (2011-05-19)

More detailed information is given in Memo CP-D/635. Each centre should make decision by checking the original article.

Type (R: arbitrary unit)

0. 98-CF-252 (0, F) , NU
1. 98-CF-252 (0, F) , , NU/DE
2. (92-U-235 (N, F) , , NU/DE) / (98-CF-252 (0, F) , , NU/DE)
3. 98-CF-252 (0, F) , , NU/DE , , MXD
4. 98-CF-252 (0, F) , , NU/DE , , NPD
5. (92-U-235 (N, F) , , NU/DE , , NPD) / (98-CF-252 (0, F) , , NU/DE , , NPD)
6. 98-CF-252 (0, F) , , NU/DE , , RTE

Corrected?

- Y: Yes (finalized)
 (Y): Yes (in preliminary transmission)
 N: Not yet

| Subentry | pt | REACTION (current coding) | Unit (current) | Type | Unit (new) | Corrected? |
|-----------|----|---|----------------|------|------------|------------|
| 10612.002 | | (98-CF-252(0,F),,DE,N,FCT) | 1/MEV | 6R? | ARB-UNITS? | N |
| 10612.003 | | (98-CF-252(0,F),,DE,N,FCT) | 1/MEV | 6R? | ARB-UNITS? | N |
| 10612.004 | | (98-CF-252(0,F),,DE,N,FCT) | 1/MEV | 6R? | ARB-UNITS? | N |
| 10612.005 | | (98-CF-252(0,F),,DE,N,FCT) | 1/MEV | 6R? | ARB-UNITS? | N |
| 10612.006 | | (98-CF-252(0,F),,DE,N,FCT) | 1/MEV | 6R? | ARB-UNITS? | N |
| 10612.007 | | (98-CF-252(0,F),,DE,N,FCT) | 1/MEV | 6R? | ARB-UNITS? | N |
| 10614.002 | | (98-CF-252(0,F),PR,DE,N,FCT) | NO-DIM | 6R? | ARB-UNITS? | N |
| 10614.003 | | (98-CF-252(0,F),PR,DE,N,FCT) | NO-DIM | 6R? | ARB-UNITS? | N |
| 10614.004 | | (98-CF-252(0,F),PR,DE,N,FCT) | NO-DIM | 6R? | ARB-UNITS? | N |
| 10614.005 | | (98-CF-252(0,F),PR,DE,N,FCT) | NO-DIM | 6R? | ARB-UNITS? | N |
| 10614.006 | | (98-CF-252(0,F),PR,DE,N,FCT) | NO-DIM | 6R? | ARB-UNITS? | N |
| 10614.007 | | (98-CF-252(0,F),PR,DE,N,FCT) | NO-DIM | 6R? | ARB-UNITS? | N |
| 10911.002 | | ((92-U-233(N,F),PR,DE,N)/ (98-CF-252(0,F),PR,DE,N)) | (No data) | 2R | ARB-UNITS | N |
| 10911.003 | | ((92-U-235(N,F),PR,DE,N)/ (98-CF-252(0,F),PR,DE,N)) | (No data) | 2R | ARB-UNITS | N |
| 10911.004 | | ((94-PU-239(N,F),PR,DE,N)/ (98-CF-252(0,F),PR,DE,N)) | (No data) | 2R | ARB-UNITS | N |
| 10911.005 | | ((94-PU-240(N,F),PR,DE,N)/ (98-CF-252(0,F),PR,DE,N)) | (No data) | 2R | ARB-UNITS | N |
| 12727.002 | | (98-CF-252(0,F),,DE,,REL) | ARB-UNITS | 6R? | ARB-UNITS | N |
| 12727.003 | | (98-CF-252(0,F),,DE,,REL) | ARB-UNITS | 6R? | ARB-UNITS | N |
| 12727.004 | | (98-CF-252(0,F),,DE,,REL) | ARB-UNITS | 6R? | ARB-UNITS | N |
| 13810.002 | | (92-U-235(N,F),,DE,N,MXW/REL) | 1/MEV | 1R | ARB-UNITS | N |

| | | | | | | |
|-----------|---|--|------------|----------|------------|---------|
| 13824.002 | | (92-U-235(N,F),,DE,N,MXW/REL) | ARB-UNITS | 1R | ARB-UNITS | N |
| 13824.003 | | (92-U-235(N,F),,DE,N,AV/REL) | ARB-UNITS | 1R | ARB-UNITS | N |
| 20175.003 | | (92-U-235(N,F),PR,DE,N,REL) | ARB-UNITS | 1R | ARB-UNITS | N |
| 20385.003 | | (92-U-235(N,F),PR,DE,N,REL) | ARB-UNITS | 1R | ARB-UNITS | N |
| 20394.008 | | (92-U-235(N,F),PR,DE,N) | B/MEV | 6R | ARB-UNITS | N |
| 20401.003 | | (98-CF-252(0,F),PR,DE,N) | 1/MEV | 1R | ARB-UNITS | N |
| 20401.004 | | (98-CF-252(0,F),PR,DE,N) | 1/MEV | 1R | ARB-UNITS | N |
| 20575.003 | | (92-U-235(N,F),,DE,N,REL) | ARB-UNITS | 1R? | ARB-UNITS | N |
| 20575.004 | | (92-U-235(N,F),,DE,N,REL) | ARB-UNITS | 1R? | ARB-UNITS | N |
| 20575.006 | | (94-PU-239(N,F),,DE,N,REL) | ARB-UNITS | 1R? | ARB-UNITS | N |
| 20575.008 | | (98-CF-252(0,F),,DE,N,REL) | ARB-UNITS | 1R? | ARB-UNITS | N |
| 20576.003 | | (94-PU-239(N,F),PR,DE,N) | 1/MEV | 1R | ARB-UNITS | N |
| 20616.003 | | (92-U-235(N,F),,DE,N) | 1/MEV | 1R | ARB-UNITS | N |
| 20616.005 | | (94-PU-239(N,F),,DE,N) | 1/MEV | 1R | ARB-UNITS | N |
| 20616.007 | | (98-CF-252(0,F),,DE,N) | 1/MEV | 1R | ARB-UNITS | N |
| 20996.003 | | (92-U-235(N,F),PR,DE,N,REL) | ARB-UNITS | 1R | ARB-UNITS | N |
| 20997.003 | | (92-U-235(N,F),PR,DE,N,REL) | ARB-UNITS | 1R | ARB-UNITS | N |
| 20997.004 | | (94-PU-239(N,F),PR,DE,N,REL) | ARB-UNITS | 1R | ARB-UNITS | N |
| 21465.002 | | (98-CF-252(0,F),PR,DE,N) | (No data) | 1R, 3 | | N |
| 22112.002 | | (92-U-238(N,F),PR,DE,N,REL) | ARB-UNITS | 1R | ARB-UNITS | N |
| 22112.003 | | (92-U-238(N,F),PR,DE,N,REL) | ARB-UNITS | 1R | ARB-UNITS | N |
| 22112.004 | | (90-TH-232(N,F),PR,DE,N,REL) | ARB-UNITS | 1R | ARB-UNITS | N |
| 22202.003 | 1 | ((98-CF-252(0,F),PR,DE,N,,EXP)/ (98-CF-252(0,F),PR,DE,N,,CALC)) | NO-DIM | 3 | NO-DIM | N |
| 22202.003 | 2 | ((98-CF-252(0,F),PR,DE,N,,EXP)/ (98-CF-252(0,F),PR,DE,N,,CALC)) | NO-DIM | 3 | NO-DIM | N |
| 22202.004 | 1 | ((98-CF-252(0,F),PR,DE,N,,EXP)/ (98-CF-252(0,F),PR,DE,N,,CALC)) | NO-DIM | 3 | NO-DIM | N |
| 22202.004 | 2 | ((98-CF-252(0,F),PR,DE,N,,EXP)/ (98-CF-252(0,F),PR,DE,N,,CALC)) | NO-DIM | 3 | NO-DIM | N |
| 22219.002 | | ((98-CF-252(0,F),PR,DE,N,,EXP)/ (98-CF-252(0,F),PR,DE,N,,CALC)) | NO-DIM | 3 | NO-DIM | Deleted |
| 22219.003 | | (98-CF-252(0,F),PR,DE,N) | 1/MEV | 4 | 1/FIS/MEV | Deleted |
| 22219.004 | | ((98-CF-252(0,F),PR,DE,N,,EXP)/ (98-CF-252(0,F),PR,DE,N,,CALC)) | NO-DIM | 3 | NO-DIM | Deleted |
| 22219.005 | | (98-CF-252(0,F),PR,DE,N) | 1/MEV | 4 | 1/FIS/MEV | Deleted |
| 22464.002 | | (92-U-235(N,F)MASS,PR,DE,N,FCT/MXW) | ARB-UNITS | | ARB-UNITS | N |
| 22650.007 | 1 | (94-PU-239(N,F)MASS,PR,DE,N,REL/MXW) | ARB-UNITS | | ARB-UNITS | N |
| 22650.007 | 2 | (94-PU-239(N,F)MASS,PR,DE,N,FCT/MXW) | ARB-UNITS | | ARB-UNITS | N |
| 22660.002 | | (92-U-233(N,F)MASS,PR,DE,N,FCT/MXW) | ARB-UNITS | | ARB-UNITS | N |
| 22688.002 | | (92-U-233(N,F),PR,DE,N,FCT) | MB/MEV | 1R | ARB-UNITS | N |
| 23056.009 | | (92-U-235(N,F),PR,DE,N,MXD) | (No data) | 3 | NO-DIM | N |
| 23056.010 | | (92-U-235(N,F),PR,DE,N) | (No data) | 3 | NO-DIM | N |
| 30099.002 | | (98-CF-252(0,F),PR,DE,N,REL) | ARB-UNITS | 1R | ARB-UNITS | (Y) |
| 30099.003 | | (98-CF-252(0,F),PR,DE,N,REL) | ARB-UNITS | 1R | ARB-UNITS | (Y) |
| 30426.002 | | (92-U-235(N,F),PR,DE,N,MXW/FCT) | PT/RCT/MEV | | P/FS/MEVSR | (Y) |
| 30704.002 | | (92-U-233(N,F),PR,DE,N,MXW/REL) | ARB-UNITS | 1R? | ARB-UNITS? | Y |
| 30704.003 | | (92-U-235(N,F),PR,DE,N,MXW/REL) | ARB-UNITS | 1R? | ARB-UNITS? | Y |
| 30704.004 | | (94-PU-239(N,F),PR,DE,N,REL,MXW) | ARB-UNITS | 1R? | ARB-UNITS? | Y |
| 30775.002 | | (98-CF-252(0,F),PR,DE,N,MXD) | NO-DIM | 3 | NO-DIM | (Y) |
| 30775.003 | | (98-CF-252(0,F),PR,DE,N,MXD) | NO-DIM | 3 | NO-DIM | (Y) |
| 30969.002 | | (98-CF-252(0,F),PR,DE,N) | 1/MEV | 4 | 1/FIS/MEV | Y |
| 30969.003 | | (98-CF-252(0,F),PR,DE,N) | 1/MEV | 4 | 1/FIS/MEV | Y |
| 30969.004 | | (98-CF-252(0,F),PR,DE,N,MXD) | NO-DIM | 3 | NO-DIM | Y |
| 30969.005 | | (98-CF-252(0,F),PR,DE,N,MXD) | NO-DIM | 3 | NO-DIM | Y |

| | | | | | |
|-----------|--|------------|-----|-------------|---------|
| 31405.003 | (98-CF-252(0,F),PR,DE,N,REL) | ARB-UNITS | 3 | NO-DIM | Y |
| 31440.003 | (98-CF-252(0,F),PR,DE,N,REL) | ARB-UNITS | 1R | ARB-UNITS | Y |
| 32211.002 | (92-U-235(N,F),,DE,N,REL) | ARB-UNITS | | | Deleted |
| 32211.003 | (92-U-235(N,F),,DE,N,REL) | ARB-UNITS | | | Deleted |
| 32211.004 | (92-U-235(N,F),,DE,N,REL) | ARB-UNITS | | | Deleted |
| 32211.005 | (92-U-235(N,F),,DE,N,REL) | ARB-UNITS | | | Deleted |
| 32211.006 | (92-U-235(N,F),,DE,N,REL) | ARB-UNITS | | | Deleted |
| 32587.002 | (92-U-235(N,F),PR,DE,N,MXW/REL) | 1/MEV | 1R | ARB-UNITS | Y |
| 40137.002 | (96-CM-244(0,F),,DE,N,REL) | ARB-UNITS | 1R? | ARB-UNITS? | N |
| 40137.003 | (94-PU-242(0,F),,DE,N,REL) | ARB-UNITS | 1R? | ARB-UNITS? | N |
| 40137.004 | (94-PU-239(N,F),,DE,N,REL) | ARB-UNITS | 1R? | ARB-UNITS? | N |
| 40250.002 | (98-CF-252(0,F),PR,DE,N,RTE/REL) | ARB-UNITS | 6R | ARB-UNITS | Y |
| 40358.002 | (94-PU-239(N,F),,DE,N,REL) | ARB-UNITS | 6R | ARB-UNITS | Y |
| 40358.003 | (94-PU-239(N,F),,DE,N,REL) | ARB-UNITS | 6R | ARB-UNITS | Y |
| 40358.004 | (92-U-235(N,F),,DE,N,REL) | ARB-UNITS | 6R | ARB-UNITS | Y |
| 40358.005 | (92-U-235(N,F),,DE,N,REL) | ARB-UNITS | 6R | ARB-UNITS | Y |
| 40418.002 | (98-CF-252(0,F),,DE,N,REL) | ARB-UNITS | 1R? | ARB-UNITS? | N |
| 40472.003 | (98-CF-252(0,F),PR,DE,N,REL) | ARB-UNITS | 1R | ARB-UNITS | N |
| 40535.002 | (98-CF-252(0,F),PR,DE,N,MXD) | NO-DIM | 3 | NO-DIM | N |
| 40631.002 | (92-U-238(N,F),PR,DE,N) | 1/MEV | 1? | PT/FIS/MEV? | N |
| 40631.003 | (92-U-238(N,F),PR,DE,N) | 1/MEV | 1? | PT/FIS/MEV? | N |
| 40631.004 | (92-U-238(N,F),PR,DE,N) | 1/MEV | 1? | PT/FIS/MEV? | N |
| 40631.005 | (92-U-238(N,F),PR,DE,N) | 1/MEV | 1? | PT/FIS/MEV? | N |
| 40644.002 | (98-CF-252(0,F),,DE,,REL) | NO-DIM | 4 | NO-DIM | N |
| 40740.002 | (92-U-238(N,F),PR,DE,N) | 1/MEV | 1? | PT/FIS/MEV? | N |
| 40871.005 | (98-CF-252(0,F),PR,DE,N) | PT/FIS/MEV | 1 | PT/FIS/MEV | N |
| 40871.006 | (94-PU-239(N,F),PR,DE,N,MXW) | PT/FIS/MEV | 1 | PT/FIS/MEV | N |
| 40871.007 | (92-U-235(N,F),PR,DE,N,MXW) | PT/FIS/MEV | 1 | PT/FIS/MEV | N |
| 40871.008 | (92-U-235(N,F),PR,DE,N,MXW) | PT/FIS/MEV | 1 | PT/FIS/MEV | N |
| 40871.009 | ((98-CF-252(0,F),PR,DE,N)// (94-PU-239(N,F),PR,DE,N,MXW)) | NO-DIM | 2 | NO-DIM | N |
| 40871.010 | ((98-CF-252(0,F),PR,DE,N)// (94-PU-239(N,F),PR,DE,N,MXW)) | NO-DIM | 2 | NO-DIM | N |
| 40871.011 | ((98-CF-252(0,F),PR,DE,N)// (92-U-235(N,F),PR,DE,N,MXW)) | NO-DIM | 2 | NO-DIM | N |
| 40871.012 | ((98-CF-252(0,F),PR,DE,N)// (92-U-235(N,F),PR,DE,N,MXW)) | NO-DIM | 2 | NO-DIM | N |
| 40871.013 | ((98-CF-252(0,F),PR,DE,N)// (92-U-233(N,F),PR,DE,N,MXW)) | NO-DIM | 2 | NO-DIM | N |
| 40872.002 | (98-CF-252(0,F),PR,DE,N) | PT/FIS/MEV | 1 | PT/FIS/MEV | N |
| 40872.003 | (94-PU-239(N,F),PR,DE,N,MXW) | PT/FIS/MEV | 1 | PT/FIS/MEV | N |
| 40872.004 | (92-U-235(N,F),PR,DE,N,MXW) | PT/FIS/MEV | 1 | PT/FIS/MEV | N |
| 40872.005 | (92-U-233(N,F),PR,DE,N) | PT/FIS/MEV | 1 | PT/FIS/MEV | N |
| 40872.006 | ((98-CF-252(0,F),PR,DE,N)// (94-PU-239(N,F),PR,DE,N,MXW)) | NO-DIM | 2 | NO-DIM | N |
| 40872.007 | ((98-CF-252(0,F),PR,DE,N)// (92-U-235(N,F),PR,DE,N,MXW)) | NO-DIM | 2 | NO-DIM | N |
| 40872.008 | ((98-CF-252(0,F),PR,DE,N)// (92-U-233(N,F),PR,DE,N,MXW)) | NO-DIM | 2 | NO-DIM | N |
| 40873.002 | (92-U-233(N,F),PR,DE,N,REL) | NO-DIM | 3 | NO-DIM | N |
| 40873.004 | (92-U-235(N,F),PR,DE,N,REL) | NO-DIM | 3 | NO-DIM | N |
| 40873.006 | (94-PU-239(N,F),PR,DE,N,REL) | NO-DIM | 3 | NO-DIM | N |
| 40874.002 | (98-CF-252(0,F),PR,DE,N,REL) | ARB-UNITS | 1 | PT/FIS/MEV | N |
| 40874.003 | (98-CF-252(0,F),PR,DE,N,REL) | NO-DIM | 3 | NO-DIM | N |
| 40874.004 | (98-CF-252(0,F),PR,DE,N,REL) | NO-DIM | 3 | NO-DIM | N |
| 40875.002 | (98-CF-252(0,F),PR,DE,N,REL) | ARB-UNITS | | P/FS/MEVSR | Y |
| 40875.003 | ((98-CF-252(0,F),PR,DE,N)/ | NO-DIM | 3 | NO-DIM | Y |

| | | | | | | |
|-----------|---|--|------------|-----|------------|---|
| | | (98-CF-252(0,F),PR,DE,N)) | | | | |
| 40916.002 | | (90-TH-232(N,F),PR,DE,N) | 1/MEV | | B/MEV | Y |
| 40930.002 | | ((98-CF-252(0,F),PR,DE,N,,EXP)// (98-CF-252(0,F),PR,DE,N,,CALC)) | NO-DIM | 3 | NO-DIM | Y |
| 40930.004 | | ((92-U-233(N,F),PR,DE,N,MXW,EXP)// (92-U-233(N,F),PR,DE,N,MXW,CALC)) | (No data) | 3 | NO-DIM | Y |
| 40930.006 | | ((92-U-235(N,F),PR,DE,N,MXW,EXP)// (92-U-235(N,F),PR,DE,N,MXW,CALC)) | (No data) | 3 | NO-DIM | Y |
| 40930.008 | | ((94-PU-239(N,F),PR,DE,N,MXW,EXP)/ (94-PU-239(N,F),PR,DE,N,MXW,CALC)) | (No data) | 3 | NO-DIM | Y |
| 41110.008 | 1 | ((90-TH-232(N,F),PR,DE,N)/ (98-CF-252(0,F),PR,DE,N)) | NO-DIM | 5 | NO-DIM | N |
| 41110.008 | 2 | (90-TH-232(N,F),PR,DE,N,REL) | ARB-UNITS | 4 | 1/FIS/MEV | N |
| 41110.009 | 1 | ((92-U-235(N,F),PR,DE,N)/ (98-CF-252(0,F),PR,DE,N)) | NO-DIM | 5 | NO-DIM | N |
| 41110.009 | 2 | (92-U-235(N,F),PR,DE,N,REL) | ARB-UNITS | 4 | 1/FIS/MEV | N |
| 41110.010 | 1 | ((92-U-238(N,F),PR,DE,N)/ (98-CF-252(0,F),PR,DE,N)) | NO-DIM | 5 | NO-DIM | N |
| 41110.010 | 2 | (92-U-238(N,F),PR,DE,N,REL) | ARB-UNITS | 4 | 1/FIS/MEV | N |
| 41113.003 | | (96-CM-248(0,F),PR,DE,N,REL) | NO-DIM | 3 | NO-DIM | Y |
| 41132.003 | | (93-NP-237(N,F),PR,DE,N) | 1/MEV | 1R? | ARB-UNITS? | Y |
| 41132.004 | | (93-NP-237(N,F),PR,DE,N) | 1/MEV | 1R? | ARB-UNITS? | Y |
| 41158.002 | | (98-CF-252(0,F),PR,DE,N,REL) | ARB-UNITS | 1R | ARB-UNITS | N |
| 41332.002 | | (93-NP-237(N,F),PR,DE,N) | PT/FIS/MEV | 1 | PT/FIS/MEV | N |
| 41421.002 | | ((94-PU-240(0,F),PR,DE,N)/ (98-CF-252(0,F),PR,DE,N)) | (No data) | 2 | NO-DIM | N |
| 41421.003 | | ((94-PU-242(0,F),PR,DE,N)/ (98-CF-252(0,F),PR,DE,N)) | (No data) | 2 | NO-DIM | N |
| 41446.004 | | ((90-TH-232(N,F),PR,DE,N)/ (98-CF-252(0,F),,DE,N)) | NO-DIM | 5 | NO-DIM | N |
| 41447.003 | | ((92-U-238(N,F),PR,DE,N)/ (98-CF-252(0,F),,DE,N)) | NO-DIM | 5 | NO-DIM | N |
| 41450.003 | | ((92-U-238(N,F),PR,DE,N)/ (98-CF-252(0,F),PR,DE,N)) | NO-DIM | 5 | NO-DIM | N |
| 41461.004 | | ((92-U-238(N,F),PR,DE,N)/ (98-CF-252(0,F),PR,DE,N)) | NO-DIM | 5 | NO-DIM | Y |
| 41502.002 | | ((92-U-235(N,F),PR,DE,N)/ (98-CF-252(N,F),PR,DE,N)) | NO-DIM | 2 | NO-DIM | N |
| 41502.003 | | ((94-PU-239(N,F),PR,DE,N)/ (98-CF-252(N,F),PR,DE,N)) | NO-DIM | 2 | NO-DIM | N |
| 41502.004 | | ((94-PU-239(N,F),PR,DE,N)/ (98-CF-252(N,F),PR,DE,N)) | NO-DIM | 2 | NO-DIM | N |
| 41516.007 | | (92-U-235(N,F),PR,DE,N,MXD/MSC) | NO-DIM | | NO-DIM | Y |
| 41516.008 | | (92-U-235(N,F),PR,DE,N,MXD/MSC) | NO-DIM | | NO-DIM | Y |