

**Nuclear Data Section
International Atomic Energy Agency
P.O.Box 100, A-1400 Vienna, Austria**

Memo CP-D/701 (Rev.)

Date: 19 May, 2011
To: Distribution
From: N. Otsuka
Subject: Correction of prompt fission neutron spectrum entries
Reference: CP-D/635

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.

Distribution:

blokhin@ippe.ru
cgc@ciae.ac.cn
chiba@earth.sgu.ac.jp
claes.nordborg@oecd.org
emmeric.dupont@oecd.org
fukahori.tokio@jaea.go.jp
ganesan@barc.gov.in
gezg@ciae.ac.cn
hongwei@ciae.ac.cn
jhchang@kaeri.re.kr
j.roberts@iaea.org
kaltchenko@kinr.kiev.ua
katakura.junichi@jaea.go.jp
kato@nucl.sci.hokudai.ac.jp
kiralyb@atomki.hu
l.vrapcenjak@iaea.org
manuel.bossant@oecd.org
manokhin@ippe.ru
mmarina@ippe.ru
mwherman@bnl.gov
nicolas.soppera@oecd.org
nklimova@kinr.kiev.ua
n.otsuka@iaea.org

nrdc@jcpgrg.org
oblozinsky@bnl.gov
ogritzay@kinr.kiev.ua
otto.schwerer@aon.at
pronyaev@ippe.ru
r.forrest@iaea.org
samaev@obninsk.ru
s.babykina@polyn.kiae.su
scyang@kaeri.re.kr
s.simakov@iaea.org
stakacs@atomki.hu
stanislav.hlavac@savba.sk
sv.dunaeva@gmail.com
taova@expd.vniief.ru
tarkanyi@atomki.hu
varlamov@depni.sinp.msu.ru
vlasov@kinr.kiev.ua
vmclane@optonline.net
v.semkova@iaea.org
v.zerkin@iaea.org
yolee@kaeri.re
zhuangyx@ciae.ac.cn

cc:

r.capotenoy@iaea.org

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)/ (98-CF-252(0,F),PR,DE,N))	NO-DIM	3	NO-DIM	Y
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