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

Memo CP-D/695

Date: 9 May 2011
To: Distribution
From: N. Otsuka

Subject: **Dictionary transmission 9102**

- Dictionary transmission 9102 is available in three formats (Trans, Archive and Backup) from the NDS open area: http://nds121.iaea.org/ndsx4/trans/dicts/.

- These dictionaries and ZVV formatted dictionaries in zipped form are also available: http://www-nds.iaea.org/exfor-master/backup/dicts-2011-05-09.zip.

- All memos submitted before 6 April (for dictionary 1, 2, 4, 16, 24-25, 30-35, 37, 236) and 6 May (for other dictionaries) are considered in this update.

- In dictionary 24 (Data Headings), upper cases of expansions were changed to lower cases if they are appropriate. Unnecessary single quotation marks in expansions were also removed.

- It was reported by Nicolas Soppera (NEA Data Bank) that JANIS generates 161 error messages on the latest EXFOR Master (Ver.2011-03-23) with this new dictionary. (It generated 283 error messages with the previous dictionary.)

- Additional changes introduced in this memo

1. Change in status

Dictionary 3 (Institute Codes)

4UKRIJI	(*Obsolete*, Use 4UKRIJD)

Dictionary 5 (Journal Codes)

NSTS	(*Extinct*, Continued as NSTP)

Dictionary 236 (Quantities)

PR,DE,N,RTE	(*Obsolete*, Use PR,NU/DE,,RTE). c.f. CP-D/635.

2. Change in expansion

Dictionary 3 (Institute Codes)

2FR BRC	CEA/DAM Ile-de-France, Bruyeres-le-Chatel, *Arpajon*
3CHPAEP	*China* Inst. of Atomic Energy, Beijing (c.f. CP-D/665)
3CHPBJG	*Peking* Univ., Beijing (c.f. CP-D/506)
4UKRIJD	Inst. Yadernyh Doslidzhen, *N. A. N. Ukraini, Kyiv*

4UKRKGU *Kyivsky Natsionalny Univ. "Taras Shevchenko", Kyiv*

Dictionary 5 (Journal Codes)

IRE IEE*E* Trans.Nucl.Sci.IEEE Transactions on Nuclear Science

Dictionary 15 (History Codes)

L Entered into *other* data library

Dictionary 31 (Branch Codes)

20 *0th component of the 2nd rank spherical tensor*
21 *1th component of the 2nd rank spherical tensor*
22 *2th component of the 2nd rank spherical tensor*

Dictionary 213 (Reaction Types)

FLP Legendre coefficient, *partial or d/dE*

Dictionary 236 (Quantities)

,DA,ER Angular distribution of *unspec*. evap. residues

3. Addition of new codes

Dictionary 26 (Family Flags)

FY1E (per fission per energy)

Dictionary 213 (Reaction Types)

FYR Fission product yield at resonance
NUA Neutron yield dep.on angle

Dictionary 236 (Quantities)

PR,NU/DE,,RTE
Prompt neutron spectrum relative to square root(E) c.f. CP-D/635.

4. Other major corrections

Dictionary 24 (Data Headings)

E-NM-ERR (Change in the family code from “E” to “F”)
KT-DN (Change in the unit code from “TEM” to “E”)
KT-NM (Change in the unit code from “TEM” to “E”)
MOM (Change in the family code from “M” to “A”)
MOM-ERR (Change in the family code from “R” to “B”)
MOM-MAX (Change in the family code from “M” to “A”)
MOM-MIN (Change in the family code from “M” to “A”)
MOM-RSL (Change in the family code from “R” to “B”)

Dictionary 236 (Quantities)

EM,DA/DE,,LEG/RSL
(Change in the reaction type from “FL” to “FLP”)
PAR,ARE (Correct the position of the resonance flag)

- All corrections (except trivial editorial corrections) are summarized below. “Status” gives alteration flags and status codes defined in EXFOR/CINDA Dictionary Manual.

Dict.	Status	Code	Expansion	Memo
003	MTRA	2FR BRC	CEA/DAM Ile-de-France, Bruyeres-le-Chatel, Arpajon	This memo
003	MTRA	2JPNJAE	Japan Atomic Energy Agency (JAEA)	Editorial
003	MTRA	2JPNKTJ	Kobe Tokiwa Univ., Kobe	CP-E/148
003	MTRA	2JPNSUT	Tokyo University of Science, Noda, Chiba	Editorial
003	AEXT	2JPNTKE	Tokyo Univ. of Education, Tokyo	CP-E/147
003	MTRA	2NORKJL	Institutt for Energiteknikk (IFE), Kjeller	CP-N/95
003	SEXT	2PRTJES	Junta de Energia Nuclear, Sacavem	CP-N/91
003	MTRA	2PRTLFE	Instituto Tecnologico e Nuclear, Sacavem	CP-N/91
003	SEXT	2SPNJNE	Junta de Energia Nuclear, Madrid	CP-N/91
003	MTRA	2SPNPCM	Parque Cientifico de Madrid (incl. CIEMAT)	CP-N/91
003	ATRA	2SPNUPC	Universitat Politecnica de Catalunya, Barcelona	CP-N/91
003	ATRA	2TUKKOC	Kocaeli University, Kocaeli	CP-N/92
003	MOBS	3CHPAEP	China Inst. of Atomic Energy, Beijing	This memo
003	MOBS	3CHPBJG	Peking Univ., Beijing	This memo
003	MTRA	3CPRAEP	China Inst. of Atomic Energy, Beijing	CP-D/665
003	ATRA	3CPRHXU	Hexi Univ., Zhangye	CP-D/665
003	MTRA	3CPRJIL	Jilin Univ., Changchun	CP-D/665
003	ATRA	3CPRPDU	Pingdingshan Univ., Pingdingshan	CP-D/665
003	ATRA	3GHALGN	National Nuclear Research Institute, Legon	CP-D/692
003	ATRA	3INDMNG	Mangalore University, Mangalagangotri, Konaje	CP-D/690
003	MTRA	3KORCHA	Chung-Ang University, Seoul	Editorial
003	MTRA	3KORDAU	Donga University, Busan	CP-D/669
003	MTRA	3KORKAE	Korea Atomic Energy Research Instit. (KAERI), Daejeon	CP-D/669
003	MOBS	3KORKBU	National Kyong-Buk University, Taegu	Editorial
003	MTRA	3KORKNU	Kyungpook National University, Daegu	CP-D/669
003	MTRA	3KORKRM	Korea Inst. Radiological & Medical Sci.(KIRAMS), Seoul	CP-D/669
003	MTRA	3KORKSR	Korea Research Inst. of Standards & Science, Daejeon	CP-D/669
003	MTRA	3KORKUS	Korea University, Seoul	Editorial
003	MTRA	3KORNSU	Seoul National University, Seoul	CP-D/669
003	MTRA	3KORPNU	Pusan National University, Busan	CP-D/669
003	MTRA	3KORPUE	Pohang University of Science and Technology, Pohang	Editorial
003	SEXT	3KORSEO	Atomic Energy Research Institute (AERI), Seoul	CP-D/669
003	MTRA	3KORULS	University of Ulsan, Ulsan	Editorial
003	MTRA	3KORYON	Yonsei University, Seoul	Editorial
003	MTRA	3MEXIFM	Inst. de Fis., Univ.Nacional Autonoma de Mexico(IFUNAM)	Editorial
003	MTRA	3MEXINI	Instituto Nacional de Investigaciones Nucleares	Editorial

003	ATRA	3NI ABU	Ahmadu Bello University, Zaria	CP-D/692
003	MTRA	4RUSFVE	Institute for High Energy Physics, Protvino	CP-A/169
003	MTRA	4RUSKUR	Rossiiskii Nauchnyi Tsentr Kurchatovskii Inst., Moskva	CP-A/170
003	MTRA	4UKRIJD	Inst. Yadernyh Doslidzhen, N.A.N. Ukraini, Kyiv	This memo
003	SOBS	4UKRIJI	Inst. Yadernykh Issledovaniy Ukrainskoi A.N., Kiev	This memo
003	MTRA	4UKRKGU	Kyivsky Natsionalny Univ. "Taras Shevchenko", Kyiv	This memo
005	ATRA	CNPR	Nuclear Physics Review	CP-D/659
005	ATRA	EPJ/CS	EPJ Web of Conferences	CP-D/672
005	MTRA	IPA	Indian Journal of Pure and Applied Physics	Editorial
005	MTRA	IRE	IEEE Transactions on Nuclear Science	This memo
005	MTRA	NST	Jour. of Nuclear Science and Technology	Editorial
005	SEXT	NSTS	Jour. of Nuclear Science and Technology Suppl.	This memo
005	ATRA	NSTP	Progress in Nuclear Science and Technology	CP-E/150
007	SOBS	91UPPSAL	Meet. on Neutron Cross Section Standards, Uppsala 1991	CP-D/660
007	ATRA	2002PRAHA	Workshop on Activation Data - EAF 2003, Prague 2002	CP-N/94
007	ATRA	2006KYIV	Int.Conf.Cur.Prob.in Nucl.Phys.Atom.Energ.,Kyiv,2006	CP-D/673
007	ATRA	2006SAROV	Conf. Nucl. Spectrosc. Nucl. Struct., Sarov, Russia,2006	4C-4/183
007	ATRA	2008KYIV	2 Int.Conf.Cur.Prob.in Nucl.Phys.Atom.Ene.,Kyiv,2008	CP-D/673
007	ATRA	2010HEIDLB	11th Symp. on Nuclei in the Cosmos, Heidelberg, 2010	CP-N/89
007	ATRA	2010KYIV	3 Int.Conf.Cur.Prob.in Nucl.Phys.Atom.Ene.,Kyiv,2010	CP-D/673
016	MTRA	TABLE	Data presented by authors	CP-D/573
017	MTRA	I	Reference to experimental instruments	Editorial
017	MTRA	M	Reference to experimental technique	Editorial
019	ATRA	AM-BE	Americium-Beryllium neutron source	CP-D/694
019	ATRA	CM-BE	Curium-Beryllium neutron source	CP-D/694
019	ATRA	PO-BE	Polonium-Beryllium neutron source	CP-D694
019	ATRA	PU-BE	Plutonium-Beryllium neutron source	CP-D/694
019	ATRA	RA-BE	Radium-Beryllium neutron source	CP-D/694
019	ATRA	RN-BE	Radon-Beryllium neutron source	CP-D/694
019	ATRA	TH-BE	Thorium-Beryllium neutron source	CP-D/694
021	MTRA	ASSOP	Associated particle	CP-D/671
021	MTRA	DSCAT	Double scattering	CP-D/671
021	MTRA	HE-AC	Helium accumulation method	CP-D/671
021	MTRA	HEJET	Collection by He jet	CP-D/671
021	MTRA	LRASY	Left-right asymmetry	CP-D/671
021	MTRA	MAGFR	Magnetic field rotation	CP-D/671
021	MTRA	RINGR	Ring ratio method	CP-D/671
021	MTRA	SLODT	Slowing-down time	CP-D/671
024	ATRA	E-DN-ERR	Error in outgoing particle en., REACTION ratio denom.	CP-C/391
024	MTRA	E-NM-ERR	Error in outgoing particle en., REACTION	This memo

			ratio numerator	
024	ATRA	EN-NRM1-MX	Upper limit of 1st incident en. range for normalization	CP-C/392
024	ATRA	EN-NRM1-MN	Lower limit of 1st incident en. range for normalization	CP-C/392
024	ATRA	EN-RES-DN	Resonance energy, REACTION ratio denominator	CP-N/93
024	ATRA	EN-RES-NM	Resonance energy, REACTION ratio numerator	CP-N/93
024	MTRA	KT-DN	Spectrum temperature, REACTION ratio denominator	This memo
024	MTRA	KT-NM	Spectrum temperature, REACTION ratio numerator	This memo
024	MTRA	MOM	Linear momentum of incident projectile	This memo
024	MTRA	MOM-ERR	Error of linear momentum of incident projectile	This memo
024	MTRA	MOM-MAX	Maximum linear momentum of incident projectile	This memo
024	MTRA	MOM-MIN	Minimum linear momentum of incident projectile	This memo
024	MTRA	MOM-RSL	Incident projectile linear momentum resolution	This memo
024	ATRA	MONIT-MAX	Upper limit of normalization value	CP-D/663
024	ATRA	MONIT-MIN	Lower limit of normalization value	CP-D/663
024	ATRA	TOF-MAX	Upper boundary of time-of-flight	CP-D/680
024	ATRA	TOF-MIN	Lower boundary of time-of-flight	CP-D/680
025	ATRA	1/FIS/MEV	per fission/MeV	CP-D/658
026	AINT	FY1E	per fission per energy	This memo
031	MTRA	20	0th component of the 2nd rank spherical tensor	This memo
031	MTRA	21	1st component of the 2nd rank spherical tensor	This memo
031	MTRA	22	2nd component of the 2nd rank spherical tensor	This memo
031	ATRA	31	1st component of the 3rd rank spherical tensor	CP-D/657
031	ATRA	32	2nd component of the 3rd rank spherical tensor	CP-D/657
031	ATRA	33	3rd component of the 3rd rank spherical tensor	CP-D/657
031	ATRA	40	0th component of the 4th rank spherical tensor	CP-D/657
034	ATRA	NPD	Normalized to probability distribution	CP-D/658
207	ATRA	BROWNE	Browne et al., Table of Radioactive Isotopes, NY 1986	CP-D/689
207	MTRA	NEUT.CS 1B	Neutron Cross Sections,Vol.1,Part B, Res. Par., 1984	Editorial
213	MTRA	FLP	Legendre coefficient, partial or d/dE	This memo
213	ATRA	FYR	Fission product yield at resonance	This memo
213	ATRA	NUA	Neutron yield dep. on angle	This memo
236	ATRA	40/PAR,POL/DA,*,TAP	Tensor analyzing power T40/dA(*), partial	CP-E/146
236	MTRA	,DA,ER	Angular distribution of unspec. evap. residues	This memo
236	ATRA	,KEM	Temperature of Maxw. dist. of reaction product	CP-C/390
236	ATRA	,SIG,ER	Unspec. evap. resid. production cross section	CP-D/683
236	ATRA	,SIG/RAT,,RES	Cross section ratio at resonance	CP-N/90
236	SOBS	DL/GRP,DE,N	Energy spectrum for specific delayed neut. group	CP-D/687

236	ATRA	DL/GRP,NU/DE	Energy spectrum for specific delayed neut. group	CP-D/687
236	MTRA	EM,DA/DE,,LEG/RSL	Leg. coef. for fit to double-diff. emission cs	This memo
236	ATRA	IND,FY,,RES	Independent fission-product yield at resonance	CP-C/394
236	MTRA	PAR,ARE	Partial resonance area	This memo
236	SOBS	PR,DE,N,MXD	Prompt neut. spect. rel. to Maxw. distr. of giv. temp	CP-D/658
236	SOBS	PR,DE,N,RTE	Energy spect. of prompt fiss. neut. square root(E)	This memo
236	ATRA	PR,KE/DA,N/N+LF	Av. kin. energ. of neut., fn.o f ang(n+light frag.)	4C-4/186
236	ATRA	PR,NU/DA,N+LF	Diff. prompt neut.mult.d/dA(n+light frag.)	4C-4/184
236	ATRA	PR,NU/DE	Energy spectrum of prompt fission neutrons	CP-C/390
236	ATRA	PR,NU/DE,,MXD	Prompt neut. spect. rel. to Maxw. distr. of giv. temp	CP-D/658
236	ATRA	PR,NU/DE,,NPD	Prompt fission neutron spectrum in probability	CP-D/658
236	ATRA	PR,NU/DE,,RTE	Prompt neut. spect. relative to square root(E)	This memo
236	ATRA	PR/PAR,NU/DA	Part.diff.prompt neut.mult.d/dA	4C-4/184
236	ATRA	PRE,AKE,LF+HF,RES	Aver. tot. kin. energ. for prim. fiss. frag. at res.	4C-4/186
236	ATRA	PRE,FY/DE,LF+HF	Primary fiss. prod. yield d/dE(tot. kin. ene)	CP-C/395
236	ATRA	SEC,FY/DE,LF+HF	Post-neutr. fiss. prod. yld d/dE(tot. kin. ene)	CP-C/395
236	ATRA	TER,AKE,LF+HF	Avg. kin. en. sum f. light and heavy frag., tern. f.	CP-D/682
236	ATRA	TER/PAR,KE,N	Kin. ene. of neut. assoc. to prod. level. spec. tern. fiss.	CP-N/90

Distribution:

blokhin@ippe.ru
chiba@earth.sgu.ac.jp
claes.nordborg@oecd.org
emmeric.dupont@oecd.org
ganesan@barc.gov.in
gezg@ciae.ac.cn
hongwei@ciae.ac.cn
jhchang@kaeri.re.kr
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@jcprg.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.dunaeva@iaea.org
stakacs@atomki.hu
stanislav.hlavac@savba.sk
taova@expd.vniief.ru
tarkanyi@atomki.hu
varlamov@depni.sinp.msu.ru
vlasov@kinr.kiev.ua
vmclane@optonline.net
v.zerkin@iaea.org
yolee@kaeri.re.