

**Automatic conversion of ND/B to NDS –
Memo 4C-4/194 (16 Jan 2012) as reply to CP-D/711 (1 Sep 2011)**
(M.Mikhaylyukova)

In memo CP-D/711 it was proposed:

- to introduce new code NDS instead of ND/B, supposing that it follows from usual abbreviation NDS for Nuclear Data Sheets publications;
- retroactive corrections should **not be required** .

158 cases of J,ND/B usage in EXFOR time were found (at date of CJD memo) and listed in Table (end of this memo)

To avoid such situation, when the same article would be coded by two different codes (ND/B or NDS in this case), it would be better to correct ND/B into NDS in ALL REFERENCES, REL-REFs, MONIT-REFs in data base and to do it automatically (by a computer code) in the NDS's EXFOR data base, considering this correction as trivial. Revised master file or corrected entries can be sent to the other centers.

This approach, when some mass corrections in the database due to change of coding or others, which can be done using database options, could be discussed previously with Viktor, Nicolas and representatives of other centers which uses own database software.

Proposal: to discuss this task in centers and at the NRDC2012 meeting.

Table of Subents, containing ND/B. The same articles are highlighted by the same color.

Entry.Subent	REL-REF or MONIT-REF	Comment
13809.001	REL-REF (R,,V.S.Shirley,J,ND/B,53,223,1988)	
14271.002	MONIT-REF (,M.Chadwick+,J,ND/B,107,2931,2006)	
14271.004	MONIT-REF (,M.Chadwick+,J,ND/B,107,2931,2006)	
14271.005	MONIT-REF (,M.Chadwick+,J,ND/B,107,2931,2006)	
14271.007	MONIT-REF (,M.Chadwick+,J,ND/B,107,2931,2006)	
20673.004	REL-REF (R,,,J,ND/B,4,(3-4),397,1970)	
20673.005	REL-REF (R,,,J,ND/B,3,(5-6),127,1970)	
20673.006	REL-REF (R,,,J,ND/B,3,(5-6),161,1970)	
20673.007	REL-REF (R,,,J,ND/B,3,(5-6),37,1970)	
20673.036	REL-REF (R,,,J,ND/B,3,(5-6),86,1970)	
21582.001	REL-REF (A,,R.L.Auble,J,ND/B,7,465,1972) (A,,F.E.Bertrand,J,ND/B,10,91,1973)	
22221.001	REL-REF (R,,Zh.Chunmej+,J,ND/B,48,111,1986) (R,,H.Junde+,J,ND/B,58,677,1989)	
22274.001	MONIT-REF (,,J,ND/B,45,701,85)	
22603.003	REL-REF (R,,C.M.BAGLIN,J,ND/B,30,1,1980)	
22655.007	REL-REF (R,,J.K.Tuli+,J,ND/B,93,1,2001)	
22680.001	MONIT-REF (,C.M.Baglin,J,ND/B,91,423,2000)	
22822.001	REL-REF (R,,R.G.Helmer,J,ND/B,95,543,2002) (R,,C.M.Baglin,J,ND/B,86,1,1999) (R,,B.Singh,J,ND/B,85,1,1998) (R,,E.Browne,J,ND/B,82,379,1997) (R,,C.M.Baglin,J,ND/B,80,1,1997) (R,,D.Abriola+,J,ND/B,107,2423,2006)	
22936.001	REL-REF (R,,N.S.SHURSHIKOV+,J,ND/B,59,947,1990)	
22963.001	MONIT-REF (,Z.CHUNMEI,J,ND/B,65,589,1992)	

22968.001	REL-REF (R,,Z.CHUNMEI,J,ND/B,95,59,2002)	
22968.004	REL-REF (R,,M.B.CHADWICK+,J,ND/B,107,2931,2006)	
22971.001	REL-REF (R,,Z.CHUNMEI,J,ND/B,95,59,2002)	
23035.002	REL-REF (R,,B.Singh,J,ND/B,105,223,2005)	
23035.003	REL-REF (R,,B.Singh,J,ND/B,105,223,2005)	
23035.004	REL-REF (R,,J.Tuli,J,ND/B,98,209,2003)	
23035.005	REL-REF (R,,J.Tuli,J,ND/B,98,209,2003)	
23035.006	REL-REF (R,,J.Tuli,J,ND/B,98,209,2003)	
23035.007	REL-REF (R,,B.Singh,J,ND/B,94,1,2001)	
23035.008	REL-REF (R,,G.Mukherjee+,J,ND/B,105,419,2005)	
23039.003	REL-REF (E,,M.J.Martin,J,ND/B,108,1583,2007)	
23039.004	REL-REF (R,,M.J.Martin,J,ND/B,108,1583,2007)	
23041.002	REL-REF (R,,B.Singh,J,ND/B,96,1,2000)	
23043.001	REL-REF (R,,Z.Chunmei,J,ND/B,95,59,2002)	
23062.002	REL-REF (R,,A.R.Farhan+,J,ND/B,81,417,1997)	
23062.004	REL-REF (R,,A.R.Farhan+,J,ND/B,81,417,1997)	
23073.001	MONIT-REF (P.Oblozinsky+,J,ND/B,107,2931,2006)	
23092.001	REL-REF (R,,A.R.Farhan+,J,ND/B,81,417,1997) (R,,Z.Chunmei,J,ND/B,95,59,2003)	2003 -> 2002 , cor in 2228
23094.001	REL-REF (R,,Z.Chunmei,J,ND/B,95,59,2002)	
23094.014	REL-REF (R,,V.S.Shirley,J,ND/B,64,505,1991)	
23094.015	REL-REF (R,,S.C.Wu,J,ND/B,106,367,2005)	
23094.016	REL-REF (R,,S.C.Wu,J,ND/B,106,367,2005)	
23094.017	REL-REF (R,,V.R.Vanin,J,ND/B,108,2393,2007)	
23094.018	REL-REF (R,,X.Huang+,J,ND/B,104,283,2005)	
23094.019	REL-REF (R,,X.Huang+,J,ND/B,104,283,2005)	
23095.002	REL-REF (R,,J.Tuli,J,ND/B,100,347,2003) (R,,M.Bhat,J,ND/B,88,417,1999)	
23100.001	REL-REF (R,,B.Singh+,J,ND/B,105,109,2005) (R,,F.E.Chukreev+,J,ND/B,97,129,2002) (R,,J.K.Tuli+,J,ND/B,100,347,2003)	
23101.002	REL-REF (R,,J.Blachot,J,ND/B,104,967,2005)	
23101.003	REL-REF (R,,J.Blachot,J,ND/B,104,791,2005)	
23107.001	REL-REF (R,,A.Farhan+,J,ND/B,86,785,1999) (R,,A.Farhan+,J,ND/B,81,417,1997) (R,,Z.Chunmei,J,ND/B,95,59,2003)	2003 -> 2002, cor.in 2228
23114.001	REL-REF (R,,R.B.Firestone,J,ND/B,108,2319,2007) (R,,H.Junde,J,ND/B,86,315,1999) (R,,J.Blachot,J,ND/B,104,967,2005) (R,,C.M.Baglin,J,ND/B,91,423,2000) (R,,M.R.Bhat,J,ND/B,80,789,1997)	
23114.002	REL-REF (R,,B.Singh+,J,ND/B,109,2439,2008) (R,,M.S.Basunia,J,ND/B,107,2323,2006)	
23128.003	MONIT-REF (A.D.Carlson+,J,ND/B,110,3215,2009)	
30927.002	REL-REF (R,,P.ANDERSSON,J,ND/B,39,641,1983) (R,,L.K.PEKER,J,ND/B,42,457,1984)	
31536.002	REL-REF (R,,Yu.V.Segeenkov+,J,ND/B,72,487,1994)	
33033.001	REL-REF (R,,J.Blachot,J,ND/B,104,967,2005) (R,,B.Singh+,J,ND/B,105,109,2005)	
33033.002	REL-REF (R,,E.Browne,J,ND/B,93,763,2001)	

41389.001	REL-REF	(R,,B.Harmatz,J,ND/B,34,(4),643,1981)	
41391.001	REL-REF	(R,,M.R.SCHMORAK,J,ND/B,43,383,1984)	
41392.001	REL-REF	(R,,K.KITAO+,J,ND/B,49,(2),315,1986)	
41466.001	REL-REF	(R,,,J,ND/B,17,(2),291,1976)	
41471.001	REL-REF	(C,,,J,ND/B,18,(3),331,1976)	
41471.011	REL-REF	(C,,,J,ND/B,18,(3),331,1976)	
41482.001	REL-REF	(R,,E.BROWNE+,J,ND/B,87,15,1999)	
41506.011	REL-REF	(R,,J.Katakura,J,ND/B,70,533,1993)	
41506.012	REL-REF	(R,,J.Katakura,J,ND/B,86,955,1999)	
41515.001	REL-REF	(A,,G.Mukherjee+,J,ND/B,105,419,2005)	
41521.001	REL-REF	(A,,E.Browne,J,ND/B,107,2579,2007)	
41524.003	REL-REF	(R,,Chadwick+,J,ND/B,107,2931,2006)	
41524.004	REL-REF	(R,,Chadwick+,J,ND/B,107,2931,2006)	
41534.001	REL-REF	(D,,C.W.Reich,J,ND/B,78,547,1996)	
41552.002	REL-REF	(R,,,J,ND/B,5,487,1971)	
41552.003	REL-REF	(R,,,J,ND/B,7,69,1972)	
41556.001	REL-REF	(R,,C.M.Baglin,J,ND/B,91,512,2000)	
A0076.001	REL-REF	(R,,F.E.BERTRAND,J,ND/B,22,(1),135,1977)	
A0138.001	REL-REF	(R,,E.A.HENRY,J,ND/B,11,(4),495,1974)	
A0139.001	REL-REF	(R,,M.R.SCHMORAK,J,ND/B,27,(4),581,79) (R,,M.R.SCHMORAK,J,ND/B,23,(2),287,78) (R,,M.P.WEBB,J,ND/B,26,(1),145,79) (R,,M.R.SCHMORAK,J,ND/B,22,(4),487,77)	
A0185.002	REL-REF	(R,,M.J.MARTIN,J,ND/B,5,601,1971)	
A0185.003	REL-REF	(R,,R.L.AUBLE,J,ND/B,5,531,1971)	
A0185.004	REL-REF	(R,,R.L.AUBLE,J,ND/B,5,581,1971)	
A0185.005	REL-REF	(R,,R.L.AUBLE,J,ND/B,5,561,1971)	
A0185.006	REL-REF	(R,,M.J.MARTIN,J,ND/B,6,387,1971)	
A0185.009	REL-REF	(R,,R.L.AUBLE,J,ND/B,5,531,1971)	
A0253.002	REL-REF	(R,,F.E.BERTRAND+,J,ND/B,19,507,1976)	
A0253.003	REL-REF	(R,,D.J.HOREN+,J,ND/B,16,25,1975)	
A0253.004	REL-REF	(R,,D.C.KOCHER,J,ND/B,17,519,1975)	
A0253.005	REL-REF	(R,,F.E.BERTRAND+,J,ND/B,19,507,1976)	
A0253.006	REL-REF	(R,,D.J.HOREN+,J,ND/B,16,25,1975)	
A0253.007	REL-REF	(R,,D.C.KOCHER,J,ND/B,17,519,1975)	
A0253.008	REL-REF	(R,,F.E.BERTRAND+,J,ND/B,19,507,1976)	
A0253.009	REL-REF	(R,,D.J.HOREN+,J,ND/B,16,25,1975)	
A0253.010	REL-REF	(R,,D.C.KOCHER,J,ND/B,17,519,1975)	
A0253.011	REL-REF	(R,,F.E.BERTRAND+,J,ND/B,19,507,1976)	
A0253.012	REL-REF	(R,,D.J.HOREN+,J,ND/B,16,25,1975)	
A0253.013	REL-REF	(R,,D.C.KOCHER,J,ND/B,17,519,1975)	
A0262.002	REL-REF	(R,,B.SINGH+,J,ND/B,60,1,1990)	
A0262.003	REL-REF	(R,,D.DE-FRENNE+,J,ND/B,64,1,1991)	
A0262.004	REL-REF	(R,,D.DE-FRENNE+,J,ND/B,72,1,1994)	
A0262.005	REL-REF	(R,,D.DE-FRENNE+,J,ND/B,67,809,1992)	
A0326.001	REL-REF	(R,,R.L.AUBLE+,J,ND/B,7,363,72)	
A0348.002	REL-REF	(R,,M.R.SCHMORAK,J,ND/B,20,165,77) (R,,Y.A.ELLIS,J,ND/B,20,139,77)	
A0348.003	REL-REF	(R,,Y.A.ELLIS,J,ND/B,20,139,77)	

A0348.004	REL-REF (R,,M.R.SCHMORAK,J,ND/B,21,91,77)	
A0426.002	REL-REF (R,,H.SIEVERS,J,ND/B,62,271,1991)	
A0426.003	REL-REF (R,,H.SIEVERS,J,ND/B,62,271,1991)	
A0426.005	REL-REF (R,,H.SIEVERS,J,ND/B,62,327,1991)	
A0426.006	REL-REF (R,,H.SIEVERS,J,ND/B,62,327,1991)	
A0426.008	REL-REF (R,,H.-W.MUELLER,J,ND/B,54,1,1988)	
A0607.002	REL-REF (R,,R.L.AUBLE,J,ND/B,7,363,1972)	
A0607.003	REL-REF (R,,F.E.BERTRAND,J,ND/B,10,91,1973)	
A0607.004	REL-REF (R,,R.L.AUBLE,J,ND/B,9,125,1973)	
A0607.008	REL-REF (R,,D.J.HOREN,J,ND/B,8,123,1972)	
D0419.001	MONIT-REF (,C.M.Baglin,J,ND/B,96,611,2002) (,E.Browne,J,ND/B,88,29,1999)	
D4151.002	REL-REF (R,,J.Blachot,J,ND/B,89,213,2000)	
D4151.003	REL-REF (R,,D.de Frenne+,J,ND/B,89,481,2000)	
F0485.002	REL-REF (R,,Burrows+,J,ND/B,47,1,1986)	
F0536.001	MONIT-REF (,L.K.PEKER+,J,ND/B,64,429,1991)	
F0537.001	MONIT-REF (,L.K.PEKER,J,ND/B,64,429,1991)	
O0178.001	REL-REF (R,,J.RAPAPORT,J,ND/B,4,351,70)	
O0542.001	REL-REF (R,,R.L.AUBLE+,J,ND/B,3,127,1970)	
O0849.001	REL-REF (R,,A.R.FARHAN+,J,ND/B,60,735,1990) (R,,A.R.FARHAN+,J,ND/B,81,417,1997) (R,,M.M.KING+,J,ND/B,76,285,1995)	
O1070.001	REL-REF (R,,U.REUS+,J,ND/B,29,1,1983)	
O1208.002	REL-REF (R,,R.B.Firestone,J,ND/B,110,1691,2009)	
O1208.004	REL-REF (R,,R.B.Firestone,J,ND/B,110,1691,2009)	
O1219.001	REL-REF (R,,ZH.CHUMNEI+,J,ND/B,83,145,1998)	
O1283.002	REL-REF (R,,T.W.BURROWS,J,ND/B,68,635,1993)	
O1341.002	REL-REF (R,,I.A.KROGER+,J,ND/B,10,429,1974)	
O1341.003	REL-REF (R,,I.A.KROGER+,J,ND/B,10,429,1974)	
O1341.004	REL-REF (R,,I.A.KROGER+,J,ND/B,15,409,1975)	
O1341.005	REL-REF (R,,I.A.KROGER+,J,ND/B,15,409,1975)	
O1341.006	REL-REF (R,,J.K.TULI,J,ND/B,9,273,1973)	
T0206.001	REL-REF (R,,D.C.KOCHER+,J,ND/B,19,445,1976)	

Preliminary trans Y008 as reply to Memo 4C-4/194

As reply to memo 4C-4/194, Viktor Zerkina produced trans T008 with trivial corrections ND/B -> NDS and announced it 20 Jan 2012 for NRDC:

Dear Colleagues,

Prelim file Y008 is available from the NDS open area from

<http://nds121.iaea.org/ndx4/trans/prelim/PRELIM.Y008>

It contains simple modification of part of reference code "J,ND/B" to "J,NDS" according to MEMO 4C-4/194 (reply to memo CP-D/711./Journal Notation question). To be sure that all is right, you can see statistics of comparison before and after modifications: http://nds121.iaea.org/ndx4/trans/from_zerkin/x0vsx1.html (better use Firefox Web browser)

Modifications were done through all EXFOR (68 Entries, 90 Subentries, 155 Codes): N2 of ENTRY/SUBENT were not modified, HISTORY also remained the same, because corrections are really trivial. I think, just notification by this e-mail is enough.

This was done after discussion with Marina about "central updates" for trivial corrections in order to make corrections fast without extra efforts from other centers. Formally NDS is allowed to do such updates, we had

such practice in the past and even had special series for that "Y". This time marina proposed to begin doing such updates on regular basis. (We can really optimize work loading and economize unproductive efforts. Although we must be sure that compilers starting updates of existing Entries download them from NDS central database.)

Viktor

PS. -----List of Entries in PRELIM.Y008-----

- 1) 13809 1996 Gill
- 2) 14271 2010 Tovesson
- 3) 20673 1976 Valkonen
- 4) 21582 1979 Nishimura
- 5) 22221 1991 Michaelsen
- 6) 22274 1991 Seyfarth
- 7) 22603 1984 Beer
- 8) 22655 2009 Reimer
- 9) 22680 2009 Semkova
- 10) 22822 2010 Semkova
- 11) 22936 2006 Perdikakis
- 12) 22963 2007 Vockenhuber
- 13) 22968 2007 Uberseder
- 14) 22971 2007 Rugel
- 15) 23035 2008 Heil
- 16) 23039 2008 Mihailescu
- 17) 23041 2006 Dillmann
- 18) 23043 2008 Marganiec
- 19) 23062 2009 Meierhofer
- 20) 23073 2007 Negret
- 21) 23092 2009 Meierhofer
- 22) 23094 2010 Marganiec
- 23) 23095 2008 Kaeppler
- 24) 23100 2010 Letourneau
- 25) 23101 2007 Loevestam
- 26) 23107 2010 Meierhofer
- 27) 23114 2010 Sage
- 28) 23128 2011 Belloni
- 29) 30927 1988 Zhou Hongyu
- 30) 31536 2003 Tomandl
- 31) 33033 2011 Naik
- 32) 41389 1988 Berendakov
- 33) 41391 1989 Demidov
- 34) 41392 1990 Berendakov
- 35) 41466 1986 Boneva
- 36) 41471 1984 Vasil`eva
- 37) 41482 2005 Telezhnikov
- 38) 41506 2007 Egorov
- 39) 41515 2008 Govor
- 40) 41521 2008 Demidov
- 41) 41524 2010 Alekseev
- 42) 41534 2009 Govor
- 43) 41552 1976 Demidov
- 44) 41556 2010 Govor
- 45) A0076 1981 Khrisanfov
- 46) A0138 1982 Wasilevsky
- 47) A0139 1982 Wasilevsky
- 48) A0185 1979 Qaim
- 49) A0253 1980 Paans
- 50) A0262 1998 Hu Bitao
- 51) A0326 1975 Guillaume

- 52) A0348 1981 Celler
- 53) A0426 2001 Gyurky
- 54) A0607 1974 Yu
- 55) D0419 2006 Bucurescu
- 56) D4151 2007 Gyurky
- 57) F0485 1991 Tims
- 58) F0536 2000 Bucurescu
- 59) F0537 2000 Bucurescu
- 60) O0178 1975 Doering
- 61) O0542 1974 Cumming
- 62) O0849 2003 Gyurky
- 63) O1070 1988 Tomar
- 64) O1208 1983 Yeh
- 65) O1219 2004 Wirth
- 66) O1283 2003 Sonnabend
- 67) O1341 1981 Ower
- 68) T0206 1982 Blok

Replies to trans Y008

Reply from Emmeric Dupont was discussed.

Viktor answers to Emmeric's questions and comments (20 Jan 2012):

1. Prelim forever?

-Not. Will stay 1-2 weeks.

2. NDS will make a final trans file Y008 that duplicates replaces existing entries?

-After week or two waiting time when responsible centers confirm that they agree with proposed changes. If responsible center would prefer to include entries of it's area into the own trans-file – NDS will exclude such entries from PRELIM file.

3. Will you/NDS update entries from official areas ?

-Yes, but all updates will be concentrated in one file (TRANS.Y008).

In order to convince centers and let them check what was changed you can look to comparison statistics (which was done automatically): http://nds121.iaea.org/nds4/trans/from_zerkin/x0vsx1.html

I think, in this way, responsible centers will be sure that nothing wrong was done with their entries, so, they will trust updates.

Anyway, this is up to compiler's community to decide organizational matters. I did it because Marina suggested to do it centrally and I remember similar updates were already done in the past. If it is not accepted – forget it (fine with me, I did not spend much time on it).

Reply from Vladimir Pronyaev (20 Jan 2012):

If option 3 below is appropriate for all centers it will be excellent.

Y-series can be considered as notification of the changes at DB level. If responsible centers are not against such changes, the changes can be done in the NDS master DB.

If responsible centers will find that some additional corrections should be introduced, then they can do this and send corrected Ys to the NDS. Master file (or corrected part) can be sent to all centers with corrected dictionaries.

If memo with requested (proposed) changes in the codings will be not approved (single voice against will be enough) the action should be postponed to NRDC meeting discussion and decision.

Questions to NRDC community discussion:

- a) Has NDS received any other comments from others centers?
- b) Do we approve these trivial corrections in trans Y008?
- c) Do we approve central trivial corrections in future as Y*** transes?