EXFOR updates and archive: database and Web access

V.Zerkin, IAEA-NDS, 16-22 April, 2014

Database.

"X4Archive" introduced in 2010 as system of plain text files for every version of every EXFOR Sub-Entry (WP2010-24) was discontinued due to IT related technical problems. Until 2013 X4Archive contained version-history only for official TRANS files after EXFOR merging in 2005. Now all EXFOR files (initial common EXFOR mate file and all official TRANS) are stored in EXFOR relational database as its optional part. It was also extended by number of older EXFOR files, like previous TRANS files, EXFOR CD-ROM contents, etc. For the moment, database contains 8 types of files:

- Common EXFOR Master file, 2005
- Official TRANS files (2005-2014)
- TRANS files from NDS-VMS (1970-2005)
- Archive on X: drive, IAEA, NDS, 1998 (source: NDS-VMS)
- IAEA-NDS, CD-ROM, 2001.01.09
- Merge-project, NEA-DB, Area:2+O, 2005-05-12
- Merge-project, NNDC-BNL, 2005-03-15
- Merge-project, F.Chukreev, CAJaD, Area:A, 2002-06-07

Web access.

How to use it

Go to: http://www-nds.iaea.org/exfor/

1. Being in "privileged" regime, select option "Sort by: Publication", [Submit] request

   `10004 [4] 1974 R.B.Schwartz+`

   Use link in [ ] following ENTRY accession number to get to the page "EXFOR Updates and Archives" with description versions of given Entry-Subentries and links to the data. Value between [ ] means number of versions of given Entry in the archival database. Following this link user gets page describing history of the Entry with links to additional service (see example in Appendix-A).
2. If you use option "Retrieve listing only" and search by Accession #, you can see also Entries existing only in Archive, but not anymore in the official Master file. For example, search for Accession#: 4*

```
1579) 41595 [1] 1980 Aleksandrov
1580) 41596 [1] 1987 Gledenov
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Entries existing only in Archive:
 1:1581) 40015 [2] 1970 Shpak 108pt
 2:1582) 40115 [2] 1970 Prokhorova 13pt
 3:1583) 40217 [3] 1966 Kuznetsov 14pt
 4:1584) 40270 [2] 1966 Gerasimov 843pt
 5:1585) 40308 [2] 1976 Ivanov 13pt
 6:1586) 40384 [2] 1975 Demidov 23pt
 7:1587) 40395 [3] 1969 Babenko 0-33pt
 8:1588) 40435 [2] 1975 Bergman 42pt
 9:1589) 40494 [2] 1975 Balabanov 7pt
10:1590) 40503 [2] 1977 Kondurov 160pt
11:1591) 40513 [2] 1977 Kononov 23pt
12:1592) 40626 [3] 1982 Borzakov 0-56pt
13:1593) 40701 [2] 1985 Kornilov 7pt
```

Being on the page “EXFOR Updates and Archives” user can get Entry from any time of its history, every version of every subentry, parallel text of Subentry versions.

There is also an option showing the difference in Subentry’s text (Appendix-B): the same text has normal font-weight and white background; text different from previous version is shown on green background; previous text different to the next version is shown with blue colour. Such schema allows to compare several versions of the same Subentry on one Web page.

Web-page with versions of Subentry

0:neq *1:eq**	*Next* ⟷ *Version-3*	*Prev.* *Next* ⟷ *Version-2*	*Previous* *Version-1*
000			
001			**Text-1**
010		**Text-2**	
011		**Text-1-2**	**Text-1-2**
100	**Text-3**		
101	**Text-1-3**		**Text-1-3**
111	**Text1-2-3**	**TEXT 1-2-3**	**text 1-2-3**

** “Equal” text: text compared ignoring case and space-symbols*

The system allows also hiding and showing every version of Subentry.

Appendix-C presents the list of Entries (except areas: 6, 7, 8) which did not appear in the common EXFOR Master file in the merging process in 2005. Most of them were inherited from the old NDS Alpha-VMS computer.

The system also provides summary of the contents (see Appendix-D), and can be used to find out missing TRANS files. For example, files recently found on NDS Alpha-VMS computer: 3097-3102, 4099-4106, A001-A010, A032-A041, B013-B016, C014-C022, E014, E015, F001-F003, D019-D021, L005, L006, M019, R010-R012, O001-O005 and S009; discovered conflicts and missing files: 3072-4072, E007-D007 and E008-D008.

TRAND files missing in the database (as of 2014-04-22):

1001-1269	B001-B012, B017	M001-M010
2001-2145	C001-C005	P001
3001, 3002, 3072	D007, D008	R001, R002
4001, 4005	E001-E003, E005, E006, E010, E011	
A011, A012	L001	

Conclusion

The system replaces “X4Archive” providing more convenient access to all existing versions of every Entry and Subentry. It can be used together with EXFOR Web uploading system during compilation and for data checking.

It might be useful if NRDC centres would find old TRANS files missing in EXFOR archival database to have it as complete as possible.

EXFOR Updates and Archives

ENTRY: A0018

#	Entry	N2	nsub:lines:data	Author1	Year	Reference1	Comment	File-ID	File-Name
(1)	A0018	20080609	2:75:1	I.G. Golikov	1978	J,YF,27,7,1978	Official TRANS file	TR-A063	trans.a063_nds
(2)	A0018	20080609	2:75:1	I.G. Golikov	1978	J,YF,27,7,1978	Official TRANS file	TR-A063	trans.a063
(3)	A0018	801111	2:75:1	I.G. Golikov	1978	J,YF,27,7,78	Initial Common EXFOR Master file, 2005	Master-0	EXFOR20050616.BCK
Archival data									
(4)	A0018	801111	2:75:1	I.G. Golikov	1978	J,YF,27,7,78	Merge-project, NNDC-BNL, 2005-03-15	BNL2005	
(5)	A0018	800222	6:214:5	I.G. Golikov	1978	J,YF,27,7,78	Merge-project, F.Chukreev, CAJaD, Area:A, 2002-06-07	RU2002	
(6)	A0018	801111	2:75:1	I.G. Golikov	1978	J,YF,27,7,78	IAEA-NDS, CD-ROM, 2001.01.09	CD2001	
(7)	A0018	801111	6:215:5	I.G. Golikov	1978	J,YF,27,7,78	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	X4M98	

SUBENT: A0018* ☑ show extended info

#	Subentry	(1) TR-A063	(2) TR-A063	(3) Master-0	(4) BNL2005	(5) RU2002	(6) CD2001	(7) X4M98
1	A0018001+	2008-06-09 lines:49	2008-06-09 lines:49	1980-11-11 lines:49	1980-11-11 lines:49	1980-02-22 lines:48	1980-11-11 lines:49	1980-11-11 lines:49
2	A0018002+	2008-06-09 lines:26 data:1×14 7-N-14	2008-06-09 lines:26 data:1×14 7-N-14			1980-02-22 lines:35 data:1×18 6-C-12		1980-11-11 lines:35 data:1×18 6-C-12
3	A0018003+					1980-02-22 lines:35 data:1×18 7-N-14		1980-11-11 lines:35 data:1×18 7-N-14
4	A0018004+			1980-11-11 lines:26 data:1×14 7-N-14	1980-11-11 lines:26 data:1×14 7-N-14	1980-02-22 lines:26 data:1×14 7-N-14	1980-11-11 lines:26 data:1×14 7-N-14	1980-11-11 lines:26 data:1×14 7-N-14
5	A0018005+					1980-02-22 lines:37 data:1×18 8-O-16		1980-11-11 lines:37 data:1×18 8-O-16
6	A0018006+					1980-02-22 lines:33 data:1×18 8-O-16		1980-11-11 lines:33 data:1×18 8-O-16

EXFOR Updates and Archives

#	File-ID	Comment
(1)	☑ Master-0	Initial Common EXFOR Master file, 2005
(2)	☑ TRANS-F001	TRANS file before merging (NDS,VMS)
(3)	☑ BNL2005	Merge-project, NNDC-BNL, 2005-03-15
(4)	☑ CD2001	IAEA-NDS, CD-ROM, 2001.01.09

SUBENT: F0001005

Master-0

```
ENTRY            F0001   19990508   20000121
SUBENT        F0001001   19990508   20000121
BIB                  9         19
TITLE       Cross section measurements for charged particle fusion
            reactors: the Li-6(He-3,P)2alpha reaction
AUTHOR      (C.R.GOULD,J.R.BOYCE)
INSTITUTE   (1USATNL)
REFERENCE   (J,NSE,60,(4),477,197608)
SAMPLE      The targets is of about 10 mu-g/cm2-thick, 99% enriched
            Li-6 metal evaporated on to 10 mu-g/cm2-thick carbon
            backings
FACILITY    (VDGT)
DETECTOR    (SOLST) The protons observed at the angles from 30 to
            150 degr. in 1.5-mm fully depleted silicin surface
            barrier detectors stacked together in pairs, with the
            signals form detectors summed directly at the
            preamplifier. Three-mil-thick Mylar foils prevented
            He-3 and alpha particles from reaching the detectors.
MONITOR     (3-LI-6(P,EL)3-LI-6,,DA,,,EXP) At Ep=6.868 MeV and
            theta = 95 degr.
HISTORY     (19800821C)
            (19990407A) CNPD: corrected 4-dig. year
ENDBIB              19
NOCOMMON             0          0
ENDSUBENT           22

SUBENT        F0001005   19990407   19990427
BIB                  3          5
REACTION    (3-LI-6(HE3,P+A)2-HE-4,,SIG,,,EVAL)
ERR-ANALYS  (EN-ERR) digitizing error
            (DATA-ERR) digitizing error
            (DATA-ERR2) phase space fits
STATUS      (CURVE) fig 4, three-body breakup cross sections
ENDBIB               5
COMMON               3          3
EN-ERR      DATA-ERR2  DATA-ERR
MEV         PER-CENT   MB
 0.04         25.       0.3
ENDCOMMON            3
DATA                 2          4
EN          DATA
MEV         MB
     2.923     39.13
     3.932     44.21
     5.059     50.76
     5.946     60.26
ENDDATA              6
ENDSUBENT           20
ENDENTRY             2
```

TRANS-F001

```
ENTRY            F0001     970708
SUBENT        F0001001     970708
BIB                  9         18
TITLE       Cross section measurements for charged particle fusion
            reactors: the Li-6(He-3,P)2alpha reaction
AUTHOR      (C.R.GOULD,J.R.BOYCE)
INSTITUTE   (1USATNL)
REFERENCE   (J,NSE,60,(4),477,7608)
SAMPLE      The targets is of about 10 mu-g/cm2-thick, 99% enriched
            Li-6 metal evaporated on to 10 mu-g/cm2-thick carbon
            backings
FACILITY    (VDGT)
DETECTOR    (SOLST) The protons observed at the angles from 30 to
            150 degr. in 1.5-mm fully depleted silicin surface
            barrier detectors stacked together in pairs, with the
            signals form detectors summed directly at the
            preamplifier. Three-mil-thick Mylar foils prevented
            He-3 and alpha particles from reaching the detectors.
MONITOR     (3-LI-6(P,EL)3-LI-6,,DA,,,EXP) At Ep=6.868 MeV and
            theta = 95 degr.
HISTORY     (800821C) Compilation produced by Arzamas RFNC-VNIIEF
ENDBIB              18          0
NOCOMMON
ENDSUBENT           21          0

SUBENT        F0001005     970708          E
BIB                  3          5
REACTION    (3-LI-6(HE3,P+A)2-HE-4,,SIG,,,EVAL)
ERR-ANALYS  (EN-ERR) digitizing error
            (DATA-ERR) digitizing error
            (DATA-ERR2) phase space fits
STATUS      (CURVE) fig 4, three-body breakup cross sections
ENDBIB               5          0
COMMON               3          3
EN-ERR      DATA-ERR2  DATA-ERR
MEV         PER-CENT   MB
 0.3690E-01  25.00     0.2952
ENDCOMMON            3          0
DATA                 2          4
EN          DATA
MEV         MB
  2.923      39.13
  3.932      44.21
  5.059      50.76
  5.946      60.26
ENDDATA              6          0
ENDSUBENT           20          0
ENDENTRY             2
```

BNL2005

```
ENTRY            F0001   19990508   20020212
SUBENT        F0001001   19990508   20020212
BIB                  9         19
TITLE       Cross section measurements for charged particle fusion
            reactors: the Li-6(He-3,P)2alpha reaction
AUTHOR      (C.R.GOULD,J.R.BOYCE)
INSTITUTE   (1USATNL)
REFERENCE   (J,NSE,60,(4),477,197608)
SAMPLE      The targets is of about 10 mu-g/cm2-thick, 99% enriched
            Li-6 metal evaporated on to 10 mu-g/cm2-thick carbon
            backings
FACILITY    (VDGT)
DETECTOR    (SOLST) The protons observed at the angles from 30 to
            150 degr. in 1.5-mm fully depleted silicin surface
            barrier detectors stacked together in pairs, with the
            signals form detectors summed directly at the
            preamplifier. Three-mil-thick Mylar foils prevented
            He-3 and alpha particles from reaching the detectors.
MONITOR     (3-LI-6(P,EL)3-LI-6,,DA) At Ep=6.868 MeV and
            theta = 95 degr.
HISTORY     (19800821C)
            (19990407A) CNPD: corrected 4-dig. year
ENDBIB              19
NOCOMMON             0          0
ENDSUBENT           22

SUBENT        F0001005   19990407   19990419
BIB                  3          5
REACTION    (3-LI-6(HE3,P+A)2-HE-4,,SIG,,,EVAL)
ERR-ANALYS  (EN-ERR) digitizing error
            (DATA-ERR) digitizing error
            (DATA-ERR2) phase space fits
STATUS      (CURVE) fig 4, three-body breakup cross sections
ENDBIB               5
COMMON               3          3
EN-ERR      DATA-ERR2  DATA-ERR
MEV         PER-CENT   MB
 0.04         25.       0.3
ENDCOMMON            3
DATA                 2          4
EN          DATA
MEV         MB
     2.923     39.13
     3.932     44.21
     5.059     50.76
     5.946     60.26
ENDDATA              6
ENDSUBENT           20
ENDENTRY             2
```

CD2001

```
ENTRY
SUBENT        F00
BIB
TITLE       Cross
            reacto
AUTHOR      (C.R.G
INSTITUTE   (1USAT
REFERENCE   (J,NSE
SAMPLE      The ta
            Li-6 m
            backin
FACILITY    (VDGT)
DETECTOR    (SOLST
            150 de
            barrie
            signal
            preamp
            He-3 a
MONITOR     (3-LI-
            theta
HISTORY     (19800
            (19990
ENDBIB
NOCOMMON
ENDSUBENT

SUBENT        F00
BIB
REACTION    (3-LI-
ERR-ANALYS  (EN-ER
            (DATA-
            (DATA-
STATUS      (CURVE
ENDBIB
COMMON
EN-ERR      DATA-E
MEV         PER-CE
 0.04         25.
ENDCOMMON
DATA
EN          DATA
MEV         MB
     2.923     39
     3.932     44
     5.059     50
     5.946     60
ENDDATA
ENDSUBENT
ENDENTRY
```

Appendix-C

EXFOR Updates and Archives

Entries absent in EXFOR database, but existing in old archives.

by V.Zerkin, IAEA-NDS, 2014-04-16 17:14:48

#	*Entry*	*N2*	*nsub:lines:data*	*Author1*	*Year*	*Reference1*	*Comment*	*Trans-ID*
1)	20045	791112	1:30:0	D. Crumpton	1969	J,JIN,31,1,6901	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
2)	20193	810310	1:42:0	W. Nagel	1966	J,JNE/AB,20,475,6606	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
3)	20233	810310	1:33:0	W. Nagel	1965	J,PHY,31,1091,6512	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
4)	20383	810429	1:50:0	F. Poortmans	1973	J,NP/A,207,342,7306	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
5)	20424	810310	1:26:0	M. Cance	1975	C,75KIEV,,,7506	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
6)	20431	800718	1:43:0	Y. Nakajima	1975	C,75WASH,HB-4,7503	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
7)	20526	801218	1:29:0	P. Holmberg	1974	J,JIN,36,715,7404	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
8)	20544	800612	1:31:0	J. Kantele	1972	J,PL/B,39,625,7205	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
9)	20565	800829	1:18:0	J. Blons	1975	J,PRL,35,1749,7512	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
10)	20571	800612	1:44:0	J. Frehaut	1975	C,75GAUSSIG,,,7511	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
11)	20617	810120	2:72:9	M. Cance	1976	C,76ANL,,,7606	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
12)	20620	810120	2:79:23	H. Conde	1976	C,76ANL,,,7606	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
13)	20621	801204	1:39:0	S. Cierjacks	1976	C,76ANL,,,7606	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
14)	20623	790831	1:16:0	F.D. Brooks	1963	R,EANDC(UK)-42L,,63	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
15)	20694	801104	1:35:0	T. Sekine	1976	P,NEANDC(J)-44L,42,7608	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
16)	20724	800808	1:74:0	D.B. Gayther	1977	C,77KIEV,,,7704	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
17)	20740	860411	1:14:0	P. De regge	1968	J,RCA,10,156,68	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
18)	20745	790831	1:26:0	I. Schouky	1977	T,SCHOUKY,7707	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
19)	20754	790626	1:15:0	A. Brusegan	1976	P,NEANDC(E)-182U,3,7,76	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
20)	20821	800718	1:48:0	J. Frehaut	1977	R,CEA-N-1998,7711	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
21)	20944	800829	1:30:0	P. Dhondt	1978	J,NP/A,303,275,7807	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
22)	21002	810213	1:37:0	H.U. Zwicky	1978	P,NEANDC(OR)-151L,7,7806	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
23)	21056	800808	1:29:0	S. Cierjacks	1978	P,KFK-2686,,2,7810	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
24)	21059	801124	1:37:0	A. Brusegan	1977	C,77GEEL,,606,7712	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
25)	21060	791112	1:26:0	N.J. Pattenden	1956	J,JNE,2,187,56	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
26)	21418	800603	1:23:0	D. Didier	1963	J,JPR,24,805,6311	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
27)	21557	801104	1:41:0	H.-G. Clerc	1975	J,ZP/A,274,203,75	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
28)	21593	801104	1:59:0	H. Wohlfarth	1976	J,PL/B,63,275,7608	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
29)	21597	801104	1:62:0	H.-G. Clerc	1975	J,NP/A,247,74,7507	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
30)	21626	821119	1:37:0	K.-L. -kratz	1978	R,INDC(NDS)-87,269,7805	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
31)	21639	801124	1:37:0	F.H. Froehner	1979	P,KFK-2899,1,7909	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
32)	21667	801104	1:63:0	Y. Hino	1979	C,79GEEL,,,7909	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
33)	21793	830204	1:43:0	S-I. Higuchi	1982	J,NP/A,384,1,51,8208	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
34)	21869	840202	1:50:0	H.N. Erten	1982	J,PR/C,25,(5),2519,8205	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
35)	21876	850915	1:39:0	K. Kobayashi	1984	J,ANE,11,315,84	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
36)	21982	860228	1:14:0	G. Traxler	1985	J,NSE,90,174,85	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	

37)	30019	720621	1:34:0	N. Grama	1967	J,RRP,12,43,6701	TRANS file before merging (NDS,VMS)	3006
38)	30036	730609	1:52:0	J. Zamudio	1967	J,NP/A,96,449,6704	TRANS file before merging (NDS,VMS)	3010
39)	30091	710316	15:184:14	S.S. Hasan	1968	J,NC/B,58,402,6812	TRANS file before merging (NDS,VMS)	3004
40)	30125	730117	46:1085:355	J.G. Malan	1969	J,NP/A,124,111,6902	TRANS file before merging (NDS,VMS)	3009
41)	30131	840706	3:58:3	V. Ajdacic	1965	J,PRL,14,444,6503	TRANS file before merging (NDS,VMS)	3050
42)	30132	840706	2:43:1	V. Valkovic	1970	J,PR/C,1,1221,7004	TRANS file before merging (NDS,VMS)	3050
43)	30227	730306	9:402:250	D. Bally	1964	C,64BOMBAY,2,421,6412	TRANS file before merging (NDS,VMS)	3009
44)	30494	790725	2:57:2	N.N. Ajitanand	1977	C,77PUNE,2,241,7712	TRANS file before merging (NDS,VMS)	3034
45)	30555	810817	4:46:0	N.A. Khan	1980	J,NIM,173,163,8006	TRANS file before merging (NDS,VMS)	3040
46)	30584	830208	5:62:0	N. Lakshmana das	1980	J,JP/G,6,1045,8008	TRANS file before merging (NDS,VMS)	3045
47)	31160	841217	2:12:0	M. Enayetullah	1966	J,PPA,3,84,66	TRANS file before merging (NDS,VMS)	3052
48)	40015	700813	3:160:108	D.L. Shpak	1970	J,YF,12,(1),35,7007	TRANS file before merging (NDS,VMS)	4002
49)	40115	721007	2:61:13	L.I. Prokhorova	1970	R,FEI-227,70	TRANS file before merging (NDS,VMS)	4006
50)	40217	740605	3:86:14	V.F. Kuznetsov	1966	P,ICD-3,51,6604	TRANS file before merging (NDS,VMS)	4021
51)	40270	750303	6:918:843	V.F. Gerasimov	1966	R,YFI-2,16,66	TRANS file before merging (NDS,VMS)	4021
52)	40308	800923	6:97:13	V.I. Ivanov	1976	P,YK-22,58,7612	TRANS file before merging (NDS,VMS)	4041
53)	40384	781102	5:98:23	A.M. Demidov	1975	C,75LENING,,344,7501	TRANS file before merging (NDS,VMS)	4035
54)	40395	781030	4:39:0	JU.A. Babenko	1969	J,YF,10,(2),233,69	TRANS file before merging (NDS,VMS)	4035
55)	40435	761122	3:88:42	A.A. Bergman	1975	J,AE,39,(4),291,7510	TRANS file before merging (NDS,VMS)	4028
56)	40494	770525	5:82:7	N.P. Balabanov	1975	C,75KIEV,4,60,7506	TRANS file before merging (NDS,VMS)	4033
57)	40503	800616	10:296:160	I.A. Kondurov	1977	C,77KIEV,3,258,7704	TRANS file before merging (NDS,VMS)	4041
58)	40513	770124	24:444:23	V.N. Kononov	1977	J,YF,26,(5),947,7709	TRANS file before merging (NDS,VMS)	4033
59)	40626	841205	2:24:0	S.B. Borzakov	1982	J,YF,35,(3),532,8203	TRANS file before merging (NDS,VMS)	4057
60)	40701	840713	2:49:7	N.V. Kornilov	1985	J,AE,58,(2),117,8502	TRANS file before merging (NDS,VMS)	4059
61)	A0173	840904	96:1314:95	D. Lee	1982	J,PR/C,25,286,82	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
62)	A0362	880331	6:190:71	M.C. Lagunas-solar	1986	J,ARI,37,835,86	TRANS file before merging (NDS,VMS)	A020
63)	A1153	961208	19:1062:759	S.L. Greene	1967	R,UCRL-70522,,67	IAEA-NDS, CD-ROM, 2001.01.09	
64)	A1320	960628	2:40:7	J.L. Tuck	1952	J,PR,88,159,52	Merge-project, F.Chukreev, CAJaD, Area:A, 2002-06-07	
65)	D2001	840312	40:36441:35745	G. Jacobs	1983	J,ANE,10,(10),541,8302	TRANS file before merging (NDS,VMS)	D013
66)	H0001	790314	3:66:2	W.W. Strohm	1978	J,ARI,29,(8),481,7808	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
67)	H0002	790314	41:536:40	A. Lorenz	1978	R,INDC(NDS)-96,7808	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
68)	H0451	800922	4:75:22	D.K. Kaipov	1979	C,79RIGA,,44,79	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
69)	O0642	0	2:94:8	J.C. Gehring	1991	J,PR/C,44,1,91	Merge-project, NEA-DB, Area:2+O, 2005-05-12	
70)	Q0422	790209	2:119:83	V.V. Babenko	1977	C,77TASHKENT,,45,7703	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	
71)	Q0427	790209	2:211:178	K. Zuber	1977	C,77TASHKENT,,79,7703	Archive on X: drive, IAEA-NDS, 1998 (source:VMS)	

Appendix-D

(generated 2014-04-17)

7. Area: **C**

#	Trans	N2	nEntries	FileName
Missing Trans: C001-C005				
587)	C006	871203	23	TRC006
588)	C007	880224	46	TRC007
589)	C008	880225	33	TRC008
590)	C009	880307	35	TRC009
591)	C010	880912	32	TRC010
592)	C011	880929	30	TRC011
593)	C012	881227	46	TRC012
594)	C013	881228	27	TRC013
Missing Trans: C014-C022				
595)	C023	970508	31	TRANS.C023
596)	C024	970702	17	TRANS.C024
597)	C025	980311	40	TRANS.C025
598)	C026	19981019	25	TRANS.C026
599)	C027	19981123	25	TRANS.C027
600)	C028	19990121	16	TRANS.C028
601)	C029	19990316	15	TRANS.C029
602)	C030	19990408	19	TRANS.C030
603)	C031	19990423	15	TRANS.C031
604)	C032	19990602	14	TRANS.C032
605)	C033	19990723	23	TRANS.C033
606)	C034	19990813	26	TRANS.C034
607)	C035	19990903	18	TRANS.C035
608)	C036	19991229	26	TRANS.C036
609)	C037	20000127	26	TRANS.C037
610)	C038	20000303	18	TRANS.C038
611)	C039	20000426	42	TRANS.C039
612)	C040	20000511	32	TRANS.C040
613)	C041	20000628	22	TRANS.C041
614)	C042	20000803	20	TRANS.C042
615)	C043	20000822	33	TRANS.C043
616)	C044	20001003	29	TRANS.C044

8. Area: **D**

#	Trans	N2	nEntries	FileName
Missing Trans: D007 D008				
710)	D001	781023	1	TRD001
711)	D002	790326	15	TRD002
712)	D003	790514	2	TRD003
713)	D004	790720	3	TRD004
714)	D005	800723	20	TRD005
715)	D006	810211	4	TRD006
Missing Trans: D007 D008				
716)	D009	820609	1	TRD009
717)	D010	821214	1	TRD010
718)	D011	830516	16	TRD011
719)	D012	831220	1	TRD012
720)	D013	840313	16	TRD013
721)	D014	850307	28	TRD014
722)	D015	861014	1	TRD015
723)	D016	900508	1	TRD016
724)	D017	900709	2	TRD017
725)	D018	930930	1	TRD018
Missing Trans: D019-D021				
726)	D022	980721	28	TRANS.D022
727)	D023	20011122	19	TRANS.D023
728)	D024	20020220	6	TRANS.D024
729)	D025	20040120	14	TRANS.D025
730)	D026	20040120	8	TRANS.D026
731)	D027	20040312	11	TRANS.D027
732)	D028	20040318	19	TRANS.D028
733)	D029	20040331	16	TRANS.D029
734)	D030	20040423	20	TRANS.D030
735)	D031	20040429	20	TRANS.D031
736)	D032	20040708	9	TRANS.D032
737)	D033	20040708	17	TRANS.D033
738)	D034	20040901	17	TRANS.D034
739)	D035	20050128	22	TRANS.D035

9. Area: **E**

#	Trans	N2	nEntries	FileName
Missing Trans: E001-E003				
797)	E004	881108	33	TRE004
Missing Trans: E005 E006				
798)	E007	901004	17	TRD007 **
799)	E008	901024	8	TRD008 **
800)	E009	910911	19	TRE009
Missing Trans: E010 E011				
801)	E012	941011	25	TRE012
802)	E013	950216	17	TRE013
Missing Trans: E014 E015				
803)	E016	20010219	31	TRANS.E016
804)	E017	20010219	9	TRANS.E017
805)	E018	20010219	7	TRANS.E018
806)	E019	20011121	12	TRANS.E019
807)	E020	20020925	30	TRANS.E020
808)	E021	20030306	28	TRANS.E021
809)	E022	20030606	20	TRANS.E022
810)	E023	20030909	12	TRANS.E023
811)	E024	20040318	5	TRANS.E024
812)	E025	20040311	17	TRANS.E025
813)	E026	20040311	36	TRANS.E026
814)	E027	20040622	51	TRANS.E027
815)	E028	20040622	25	TRANS.E028
816)	E029	20050224	40	TRANS.E029
817)	E030	20050224	20	TRANS.E030
818)	E031	20050517	17	TRANS.E031
819)	E032	20050914	37	TRANS.E032
820)	E033	20051025	24	TRANS.E033
821)	E034	20051219	24	TRANS.E034
822)	E035	20060214	10	TRANS.E035
823)	E036	20060411	23	TRANS-CORR.E036
824)	E037	20060906	21	TRANS.E037