Nuclear Data Section
International Atomic Energy Agency
Conclusions and Actions

Conclusions

General

C1   Next year's meeting will be held in the second half of September 2008 in Obninsk. *(Note added after the meeting: Preliminary date for the next meeting was set for 22 – 25 September 2008.)*

EXFOR, General

C2   The general compilation scope is kept unchanged as agreed last year and given in WP 2006-13 Rev.2 (see page 23)

C3   The proposal that NDS can make trivial corrections directly on the common master file (with information of originating centre) is agreed. (WP 2007-3)

C4   All corrections of entries must start from the version of the common master file (rather than from local versions)

C5   Recompilations or improvements of existing entries by another centre should result in an update of the old entry (rather than a new entry with deletion of the old one), in consultation between both centres. (WP 2007-7)

C6   The NRDC recommends to WPEC-SG30:
   a)   to keep the NRDC informed about its activity and data formats development
   b)   to provide full documentation of used computational formats
   c)   to provide internal files (dictionaries) to NRDC

Common EXFOR/CINDA dictionaries

C7   NDS will distribute an extended form of the quantity dictionary 236 which will introduce all occurrences of SF7 (particle considered) codes which were replaced by wildcards, for use in various application programs. This dictionary will be distributed together with the EXFOR backup. (Also Action A21)

CINDA

C8   Dunaeva will on a trial basis produce EXFOR dummy entries from her scanned references (as described in WP 2007-17) which can be used for CINDA input. (Action A24)

EXFOR, technical

C9   The proposal of WP 2007-8 (Move of alteration flags to col.11 in ENTRY
      and SUBENT records) is accepted. From the new year (2008), the new
      format must be used. The flags to be used are:
      Blank = new
      C = changed
      I = inserted (SUBENT only)
      Deletion of subentry is done by NOSUBENT with blank col. 11.
      Alter flags in col. 80 will no longer be used.

C10   The definition of modifier BRA (bremsstrahlung spectrum average) as given
      in WP 2007-11 (CP-E/117) is correct (no change in the definition); data
      headings EN-MAX or EN-MIN, EN-MAX are used with it.
      Modifier BRS is used for "good resolution" spectra (<500 keV); data heading
      EN is used with EN-RSL.

C11   The meeting adopted Option 1 of WP 2007-2: In dictionary 24, the flag for
      "one of multiple variables" is removed, so that the appropriate flags for
      minimum, maximum, errors and resolution of such variables can be inserted.

C12   The proposal for a revised coding of certain *Phys. Rev. B* references is
      approved; consequently, it is decided that page numbers can now be
      alphanumeric. Example:
      J,PR,B136,1632,196412 must be changed to
      J,PR,133,B1632,196412
      See WP 2007-13 for complete list of necessary changes (Action A36).
      This concerns only publications before 1970. From 1970, the new subseries
      of Phys. Rev. are coded with journal codes PR/A, PR/B etc.

C13   It is agreed that for institutes not likely to produce several experimental
      works, it is preferable not to introduce a new institute code but to use the
      country code (e.g. 3INDIND) with free text explanation, in order to avoid the
      introduction of too many unimportant codes.

C14   Compilers should remember that for *Analyzing Power* and other polarization
      quantities always the heading DATA should be used (never DATA-CM),
      together with the appropriate angle heading ANG or ANG-CM. (WP 2007-
      14)

C15   The proposal of WP 2007-19 on coding of *multiplicity of prompt capture
      gammas* is agreed:
      Reaction coding: …..(N,G)…,MLT/DE with new units PT/RCT/MEV
      (See also Action A28)

EXFOR software

C16　　Compilers started to use the EXFOR editor for compilation and found to be very useful; it needs further updating according to compilers' remarks.

Actions

General

A1　　All　　(Standing Action) All recognized policy papers for consideration by the NRDC members need to be prepared and distributed four weeks before the annual NRDC meeting. This will ensure adequate thought and discussion prior to the meeting.

A2　　All　　Keep CP memo distribution up-to-date.

A3　　All　　In e-mails with attached CP memos, put the subject in the body of the e-mail so that recipients can decide whether it is relevant for them.

A4　　All　　Only one memo should be sent per e-mail

A5　　All　　(continuing) Review the Citation Guidelines (2004 version from NRDC internal webpage) and send updates to NDS.

EXFOR, General

A6　　All　　(Standing Action) All Centres should give high priority to compiling new compilations.

A7　　NDS　　(continuing) Continue to try developing sensible means of data communication between laboratories and the network via the major journals.

A8　　All　　(Standing Action) Follow the procedures agreed earlier for journal coverage and compilation of new publications, as summarized in WP 2006-13 (see page….).

A9　　NDS　　Develop a draft for a public version of the "current compilation" webpage.

A10　　All　　Give priority to compile papers from the 2007NICE conference (from the available papers; no need to wait for

proceedings)

A11	Dunaeva	Check list of needed compilations for CRP on "Recommended data for production of therapeutic radionuclides" (WP 2007-20) and inform responsible centers.
A12	All	With high priority compile these works from WP2007-20
A13	Zerkin	Check on next visit to NNDC possibility of downloading old *Nucl.Phys.* articles relevant for EXFOR, for addition to the NDS archive
A14	Zerkin	Investigate ways to include DOI in EXFOR
A15	Zerkin	Investigate possibility to exchange additional "Reference" files containing references, DOI, NSR key and send to others for comments.
A16	**NDS**	(continuing) Review the EXFOR Basics Manual and submit revision when time permits. Also include (optionally) the "C4" computational format (taking into account further developments together with WPEC SG30)
A17	NDS	Update LEXFOR and EXFOR Systems Manual
A18	All	Make efforts to change all remaining upper case entries to lower and upper case. On retransmission, the old entries must be checked and any other necessary corrections must be done. Even though this will absorb some fraction of the manpower, this exercise is very worthwhile since it will improve the quality and user-friendliness of the database as a whole. Care must be taken with automatic conversions because (in at least one case) serious mistakes even in the DATA table were introduced.
A19	Zerkin	Continue development of EXFOR+ (interpreted/extended EXFOR format)

Common EXFOR/CINDA dictionaries

A20	All	Send feedback on the Dictionary Manual to NDS
A21	Zerkin	Write program to produce extended dictionary 236 (see Conclusion C7) and distribute the new dictionary to centres as part of EXFOR backup.

CINDA

A22	Henriksson	(continuing) Search for illegal experimental entries for MANY and replace them with individual entries.
A23	Henriksson	(continuing) Distribute final version of CINDA manual including latest corrections.
A24	Dunaeva	On a weekly basis, collect in a new directory "CINDA-Dummy" (in the NDS open area) entries in the "dummy EXFOR" format (described in WP 2007-17) of all relevant scanned publications.

EXFOR, technical

A25	Otsuka	(continuing) Submit summary on tensor polarization data as a memo to remove inconsistencies in dictionary expansions.
A26	NDS	(continuing) Clarify quantities KE (Kinetic energy) and AKE (Average kinetic energy) in LEXFOR.
A27	All	(continuing) Check KE and AKE EXFOR entries compiled in their area and correct if necessary.
A28	Otsuka	Review the various types of gamma spectra in EXFOR and the related quantities and units
A29	Otsuka	Review the quantities and units dimension for data differential with respect to 4-momentum transfer and submit a LEXFOR entry on it.
A30	All	(Standing Action) When coming across report codes in dictionary 6 which differ significantly from what is shown on the cover, submit additional explanation to NDS for inclusion in dictionary 6.
A31	Zerkin	Correct BibTeX output in the NDS system to take correct authors list from NSR when available.
A32	NDS	Update dictionary 24 according to Option 1 of WP 2007-2

		and test impact on EXFOR programs, and report to network about the results. (Conclusion C11)
A33	All	Run CHEX in TRANS mode (not DATA mode) when checking new entries or TRANS files, to make sure that all important errors are found.
A34	All	(continuing) Check WP **2006**-15 for remaining corrections to be transmitted. Centres should report on fulfilled Action by the end of 2007.
A35	Dunaeva	(continuing) Distribute list of duplications for action.
A36	All	Make remaining reference corrections from WP 2007-13 (change of coding for PR/B). (Conclusion C12)
A37	NEA-DB	Check old entries 61151, 61227, 67252 (were they converted to area 2 entries?)
A38	All	Go through WP 2007-15 and 18 and retransmit the requested corrections asap, or check and request any necessary dictionary updates.
A39	NDS	Make the correction on entry 1333 listed in WP 2007-16.

EXFOR software

A40	All centres	Keep each other informed about EXFOR-related software being used and/or developed. NDS may add this information to the NRDC internal web page.
A41	All	(Standing Action) Give feedback on the digitizing software GSYS to JCPRG.
A42	All	(Standing Action) Give feedback to NDS on the existing CHEX version (on bugs as well as desired refinements)
A43	NDS	Check possibility of organising a workshop on the EXFOR editor and digitizing programs
A44	Sarov, NDS	Continue development and testing the EXFOR editor in cooperation with NDS and other data centres, taking into account compilers' remarks.
A45	Sarov	Find ways of free distribution of the EXFOR editor