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**Memo CP-D/494**

**Date:** 6 November 2007  
**To:** Distribution  
**From:** O. Schwerer, S.Dunaeva  
**Subject:** **Conclusions and Actions of the 2007 NRDC meeting**

Please find attached the Conclusions and Actions of the 2007 NRDC meeting in Vienna.

Please give your feedback about any mistakes or omissions by the end of November. The complete meeting report, including also a meeting summary, the status reports of the centres and part of the working papers, will, as usual, then be published as an INDC report.

Remember also that the status reports, working papers and PowerPoint presentations presented at the meeting are available from our NRDC web page (<http://www-nds.iaea.org/nrdc-int/>).

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## 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 ....)
- 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)

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| 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 <i>Nucl.Phys.</i> 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 | <b>NDS</b> | (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**

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| 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**

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| 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**

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| 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)

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| 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 <b>2006-15</b> 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**

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| 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   |