

## Conclusions and Actions of the 1999 NRDC Meeting

### CONCLUSIONS

#### General

C1 The meeting agrees on Word7/95 as exchange format for text documents.

#### Conclusions and informational statements on CINDA

Info1 New version of CD-CINDA will be released by NEA-DB approx. September 99. It will include the updated database with the current software (no new feedback was received)

Info2 Since the new version of CINDA format and programs will not be ready in 2000, it was decided to use from now on the term "CINDA-2001" instead of "CINDA-2000".

C2 (Reference: WP6, items 1, 2) Decisions, to permit in CINDA additional (low Z) targets for fission reactions and natural elements as targets for 'nearly monoisotopic' elements, are postponed to CINDA-2001.

C3 (Reference: WP6, item 3) for data obtained via Internet, the reference type W (= private communication) should be used (see manual)

C4 (Reference: WP6, item 5) New abbreviations to be used for CINDA comments will not be added to Table 5 of the CINDA book, but most of them may be used anyway.

C5 The proposals of the Working Group on CINDA-2001 were approved with minor amendments (see WP12 Rev.) (See also Action A9.)

Info3 CINDA-2001 format proposal (WP3): the following major changes are considered: no reader code; allow 2 work types; second comment record; allow range of subentry numbers for EXFOR index lines

#### EXFOR

##### *Conclusions on general EXFOR items*

C6 (Reference: WP6, item 4) The addition of '@' to the list of allowed characters in EXFOR is approved.

C7 From now on all TRANS files will be put as preliminary files in the NDS open area, subdirectory [TRANS.PRELIM]. All centres should be notified by e-mail of any new TRANS tape. All centres are encouraged to submit

their comments to the originating centre within 3 weeks. The originating centre should then transmit the corrected version as soon as possible to the [TRANS] directory.

*Conclusions on items related to the Y2K conversion*

- C8 Not the whole library will be retransmitted with the 4 digit year code. However, all future transmissions have to have the year coded in 4 digits throughout the EXFOR entry. All centres are strongly encouraged to modify their retrieval codes to always display 4 digit year so as not to confuse users. Furthermore, the centres are encouraged to gradually retransmit their complete area in the new date format.
- C9 It is agreed that in references it is not necessary to pad by zeros if month and/or day are not known.

*Conclusion on EXFOR programs*

- C10 It would be useful to have a stand alone version of the computation format program. McLane will do it when time allows.

*Conclusions on the dictionary system, new dictionary codes and coding rules*

- C11 We are allowing the introduction of upper and lower case in future dictionary additions.
- C12 The author names may be coded in upper and lower case.
- C13 The pending proposals for new EXFOR quantities collected in WP8 were approved with the following exceptions / modifications:
- Item 1 (CP-C/246): see conclusion C17, WP16 Rev.
  - Item 3 (CP-C/249): quantity PRE,AKE,LF/HF is replaced by PRE,KE/CRL,LF/HF (see WP16 Rev.)
  - Item 5 (CP-D/301, 4C-4/83): Not approved, see Action A43
  - Item 7 (4C-4/87): The quantity EM,DA/DE,,LEG/RSL is approved; the formula in the code expansion is modified to contain the secondary energy **E'**:  
$$4PI/SIG(E)*D2-SIG/D-OMEGA/DE' = (1+SUM(2L+1)A(E',L)P(L))$$
  - Item 8 (4C-4/91): For the alternative proposals for Dict. 36, the codes given in the reply by V. McLane are approved: PAR,DA,G,LEG/RS and PAR,POL,G and DA,FF,LEG/RS. Consequently, the codes ,DA/DE,G,LEG/RS and ,POL/DE,G and ,DA,FF,LEG/FCT/RES were not approved.
  - Item 10: No change of rules needed because the proposed use of derived headings is possible already within the current rules.
  - Item 11: see conclusion C15

- Item 12: The code ,POL/DA,,AZI is not approved because (according to V. McLane) the proposal was withdrawn prior to the meeting.

C14 The "straightforward" dictionary updates collected in WP9 were noted including the following deviations from the original proposals:

- Dict.3, 1USADAL not introduced, replaced by 1USADLS
- Dict. 22, PGAG replaced by PGAC (typographical error)
- Dict. 27, 21-SC-45: the new code needed is 21-SC-41.

C15 'q' (lower case) is adopted as the data heading for the wave number of transferred momentum.

C16 Whenever a non-trivial addition is proposed for Dict. 36, a corresponding LEXFOR entry should be submitted. This LEXFOR entry should mention the independent variables and (class of) units to be used. NDS should reject proposals without LEXFOR entries.

C17 The report of the working group on fission yields (WP16 Rev.) with the amendments is approved.

C18 The proposal of WP7 on self-indication is adopted with the following change: the new code SIF goes to SF6 rather than SF8. (See also Action A40.)

C19 Nuclear temperature (kT) must be given in energy units.

#### **CPND**

C20 The new T-series is introduced following the proposal in WP4 (=Memo CP-C/248) and the responsible centre is NNDC.

## **ACTIONS**

### **General Actions**

- A1 Proniaev Send official letter to KAERI and Sarov inviting them to join network
- A2 NDS (Old A3 continuing) Send CINDA DBMS backups to VNIIEF, and the same for ENDF (DBMS backup and text libraries).
- A3 Lammer Investigate the possibility to include the program package for calculation of fission yield distributions by A.C.Wahl, respectively the PC version of it, in the NDS data collection.
- A4 NEA-DB (Old A36 continuing) Send ORACLE design specification developed at NEA for CINDA and EXFOR to NNDC, NDS, CJD and CDFE.
- A5 all Send their progress reports and some working papers (if inclusion is desired) in Word to Schwerer within one month after this NRDC meeting.

### **CINDA**

- A6 NEA-DB, (Old A38 continuing) Specify to NDS the number of copies  
Manokhin needed for CINDA99 by 14 June 1999.
- A7 Manokhin (Old A39 continuing) Send addresses of recipients of CINDA books to NDS by 14 June 1999 (so that part of the books and questionnaires can be mailed directly from Vienna).
- A8 NNDC Investigate whether appropriate descriptors for optical model parameters, deformation parameters and other theoretical quantities already covered in CINDA, can be added as searchable descriptors in NSR. (Replacing proposal of WP5)
- A9 Lammer (From WP12, last paragraph) Look at the old CINDA quantity codes and the EXFOR reaction codes that will be used for CINDA2001 and check for a 1:1 correspondence for the conversion. Look also into the possibility of the automatic addition of a quantity code in the conversion process.
- A10 Lammer Update page I.8 of CINDA book (on online access) and send proposal to CINDA centres for checking

### **EXFOR/CINDA Dictionary System**

- A11 Schwerer (Old A19 continuing) Check old actions 7-13 of the 1997 NRDC meeting after receipt of the new dictionaries and programs from NNDC.
- A12 McLane (Old A21 continuing) Submit proposal for modification of Dict.27 use flags before the next meeting. (*Compare also the following Action*)

- A13 all Consider radical reform of current Dictionary 27.
- A14 Schwerer (Old A22 continuing) When adding new dictionary codes, take care of flags and numerical equivalents in consultation with V. McLane.
- A15 McLane Send new DAN2X4 and new DANIEL dictionary memos to NDS
- A16 Schwerer Make dictionary transmission as soon as possible after receiving DAN2X4
- A17 Schwerer Make dictionary transmissions 4 times per year.
- A18 all Think about using archive dictionaries instead of EXFOR (TRANS) dictionaries

### **EXFOR, general**

- A19 McLane  
Proniaev (Reference: WP6, item 6) Add list of EXFOR areas to EXFOR Manual, appendix P and the network document
- A20 all Proof-read the EXFOR Basics Manual and send corrections back to McLane by e-mail.
- A21 McLane (Old A42 continuing) Add example entries (or one brief complete entry) to the EXFOR Basics Manual.
- A22 NDS (Old A47 continuing) Send incremental EXFOR updates (TRANS) to CNDC.
- A23 McLane Send Schwerer a list of the last transmission files on the library sent to CNDC.
- A24 McLane (Old A48 continuing) Make a benchmark test of TEST-EXF.
- A25 McLane (Old A49 continuing) If time becomes available, investigate the possibility of including separate index lines for the ELEM/MASS formalism
- A26 McLane (Old A50 continuing) Correct EXFOR processing codes to properly treat cases where KT is given instead of an average incident particle energy (factor 3/2).
- A27 all Check and retransmit all entries included in the list of pending retransmissions by V.McLane.

### **EXFOR coding rules and new dictionary codes**

- A28 all Review entries of their area given in WP11 for legal or illegal use of He-5 as reaction product.

- A29 McLane (Old A57 modified) Provide LEXFOR entry for particle correlation measurements.
- A30 McLane (Old A58 continuing) Update LEXFOR page on thick target yields taking into account the conclusion #29 of the 1997 NRDC meeting (Memos CP-C/224 and CP-C/233 with the modification that “thick target yield per unit time” is coded TTY,,DT instead of TTT).
- A31 McLane (Old A59 continuing) Check existing codes for fission quantities for possible overlap with the case of Memo CP-C/209 and existing EXFOR entries for necessary revisions.
- A32 Lammer (old A62 modified) Review the LEXFOR entry on fission yields and send proposals for revisions to McLane.
- A33 McLane Update the LEXFOR entry on fission yields according to Lammer’s proposals.
- A34 McLane (Old A66 continuing) Submit LEXFOR entry on the use of RCL and RSD in SF7.
- A35 Kellett (Old A68 continuing) Retransmit subentry 20220.007 using the new REACTION (PAR,DA/CRL,G/N) introduced at the 1998 NRDC meeting and check whether correction of DATA headings is necessary.
- A36 McLane (Old A69 continuing) Provide more information on the proposal containing “PN” (prompt neutrons) in SF7 (Memo CP-C/235).
- A37 Kellett (Old A70 continuing) Check the incorrect report code mentioned in 4C-3/389 and retransmit entry 22357.
- A38 McLane (Old A71 continuing) Propose clarification of the definition of gamma-ray abundance in LEXFOR.
- A39 Maev Prepare a LEXFOR entry and a new proposal for coding rules for the data to be compiled in EXFOR entry 41303.
- A40 Maev To send a modified LEXFOR entry on self-indication to McLane.
- A41 McLane Add the statement of conclusion C19 (on units for nuclear temperature kT) to the corresponding LEXFOR entry.
- A42 McLane Check all references concerning particle correlations and propose codes and coding rules.
- A43 NDS+CJD Reconsider the coding proposals of Memos CP-D/301 and 4C-4/83.

### **Neutron data**

A44 NEA-DB (Old A76 continuing) Look into the status of the EXFOR 6000 series.

### **CPND**

A45 CAJaD (Old A78 continuing) Investigate whether the Landolt-Börnstein CPND compilation can be made available to the CPND centres in computerized form.

A46 NDS (Old A80 continuing) Distribute the corrected area B file after completion of the corrections by CAJaD.

A47 NDS Communicate with centres which have not sent any input to CPND EXFOR for more than one year.

A48 all concerned Study Chukreev's list of duplications (WP13) and take necessary actions.

A49 all CPND Go through the list in WP17 and compile publications of their responsibility with high priority and communicate the accession number to ATOMKI.

### **Software development**

A50 all concerned All centres using NNDC programs should check the NNDC open area 'FOURCS' for program updates.

A51 all Send information on planned or ongoing new developments in the area of program development and user services in WORD format to NDS. NDS will collate this information and distribute it as a quarterly NRDC user services and software development report.

### **Graphics software**

A52 Zerkin,NNDC Investigate various options for including graphics on the EXFOR CD-ROM

A53 NDS Investigate possibility to organize a workshop on nuclear reaction data plotting

A54 Zerkin+NNDC Investigate the possibility of coupling Zerkin's 'ZV VIEW' with the NNDC web retrieval system.

### **Evaluated data libraries**

A55 all concerned (Old A85 modified): Compile and maintain a list of known errors and deficiencies in the evaluated data libraries for which they are responsible and make this list available to the users of the online service.

A56 all concerned (Old A86 continuing) Document the parameters being used for producing pointwise cross sections including the code name, version number and input deck.

A57 all concerned (Old A87 continuing) All centers responsible for evaluated data libraries should try to make the documentation available online.