Memo CP-D/315

26 May 2000

From: O. Schwerer

To: Distribution

Subject: Conclusions and Actions of the 2000 NRDC Meeting

Please find in the attachment the "final draft" of the Conclusions and Actions of the NRDC Meeting in Obninsk, 15 - 19 May 2000.

It contains all modifications and additions introduced on the last day of the meeting. Also, the conclusions and actions were sorted by major topics and therefore renumbered. The topics of conclusions 13 and 14, which had been approved at the meeting, were added as explicit conclusions. Action A42 (on proposed units for dictionary 25) was added since this item was not finished at the meeting.

Please check the draft and send any corrections and comments as soon as possible, but not later than **30 June 2000**. The final meeting report, including also a brief meeting summary, the status reports and selected working papers, will again be published as INDC(NDS) report.

Once more I would like to thank Mark Kellett for taking the notes during the first three days of the meeting.

Distribution:

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NRDC Meeting May 15-19 2000, Obninsk, Russia

CONCLUSIONS

General

- C1: All centers now accept documents in Word97 format.
- **C2:** The next Technical NRDC Meeting is planned for the second half of May 2001 in Vienna. NEA-DB offered to host the next full network meeting (AGM) in Paris, which is envisaged to be held on 4 days in late April or early May 2002.

See also General Actions A1 - A14.

CINDA-2001

C3: The steps for implementation of CINDA-2001 are summarized as follows:
1. Extract relevant information from EXFOR and convert it, as well as the present CINDA, to CINDA-2001 format
2. For neutron data, compare this information with CINDA and add the entries not covered by EXFOR
3. Convert Photonuclear Bibliography
4. Convert existing (old) CPND bibliographies

A first version of the file will be released after completion of the first 2 steps. This phase is expected to be completed by the end of 2002. Thereafter, entries with missing detailed quantities (from old CINDA) will be upgraded gradually.

See also Actions A15 - A17.

EXFOR/CINDA Dictionary System

- C4: The decision on a radical reform of dictionary 27 (Nuclides) is postponed to the next full (AGM) meeting.
- **C5:** From now on, only new nuclides need to be communicated by memo for addition to dictionary 27. Use of an existing nuclide in an additional field will be dealt with by NDS without announcement.

See also Actions A18 - A23.

EXFOR, general

C6: On the NNDC project for archiving experimental data published in Physical Review C: All compilation centers agree to participate in this pilot project. NNDC, as the contact center for the publisher of Phys.Rev.C, will receive the numerical data and the text of the article from the authors and forward them to the responsible center for compilation which **must compile it within 1 month time** and return the compiled data to NNDC **by private communication.** (In addition, the new entry will be put on the next regular TRANS file of the compiling center.) The compiling center will inform NNDC of the accession number immediately on receipt of the data. (*Compare also Actions A34 and A35*).

See also Actions A24 - A36 on general EXFOR matters.

EXFOR coding rules and dictionary codes

- **C7:** The proposal to remove the data heading LVL-NUMB was not agreed.
- **C8:** (On WP3) The Dubna conferences will be coded using the appropriate JINR report codes (rather than conference codes such as 95DUBNA), with the title of the conference given in free text.
- **C9:** Units B/ATOM are not needed (proposal withdrawn), existing cases have been converted to ATOMS/B.
- **C10:** Proposed units B-MEV/SR are changed to B*MEV/SR for consistency with existing units.
- C11: All proposed new quantities (Dictionary 36) of WP6 are adopted:

SEQ,DA/DA/DE,P/P/P POL,DA/DE POL,DA/DE,,ANA ,DA/DA,P/A ,DA/DA/DE,P/P/P NN/PAR,POL/DA,,SF PAR,DA,,IPA

PRE,AKE,LF/HF PAR,DA/CRL PAR,DA/CRL,G/P EM/PAR,DA/DE EM,TTY/DA/DE IND/UND,PY

C12: The new quantities for dictionary 36 proposed in WP8, WP9 and WP10 are adopted:

NN/PAR,DA,,SF 21/PAR,POL/DA,,TAP 22/PAR,POL/DA,,TAP 20,POL/DA,,TAP 21,POL/DA,,TAP 22,POL/DA,,TAP PAR,POL/DA,,SF ,WID/STR PAR,WID/STR ,DA/TMP,FF,LEG/RS ,WID/RED,,RMT/AMP CUM/PAR,DA CUM/PAR,SIG PAR,DA,,SFC

C13: The headings for dictionary 24 as proposed in items 2, 3 and 4 of WP7 are approved:

E-LVL-INI1, E-LVL-INI2, E-LVL-FIN1, E-LVL-FIN2 +DATA-ERR1, -DATA-ERR1, +DATA-ERR2, -DATA-ERR2 E-RSL-FW (For item 1 of WP7 see Action A43).

C14: The units PART/FIS (instead of NO-DIM) are approved for all measurements of nubar. (WP9)

See also Actions A37 - A44.

ACTIONS

General Actions

A1:	(NDS)	Remove the RIKEN Data Centre entry from the Network document	
A2:	(NDS)	Make all of the IAEA-NDS Documentation series available on the WWW in PDF format. This may require scanning of previous paper copies	
A3:	(All)	Send/give the electronic format (MS-Word or Excel) of their Centre's Progress Report, and any other paper distributed during the meeting which should be included in the meeting report, to NDS before 15 June 2000.	
A4:	(NDS)	(Old A2) Send the ENDF (DBMS and text libraries) to VNIIEF and CJD.	
A5:	(Lammer)	(Old A3) Include the PC program package for calculation of Fission Yield distributions by A. C. Wahl in the NDS data collection	
A6:	(All)	To support the joint project of Russia, Ukraine (UkrNDC) and Belarus (Minsk-Sosny) on development of Internet site structure and web pages for nuclear databases and related software. This support would include establishment of contacts of project initiators with European, US and other centers and organisations interested in collaboration, cooperation or partnership in this project.	
A7:	(Dunaeva)	Keep other centers informed on the status of the proposed project.	
A8:	(NDS)	Distribute respective parts of the ADLIST address database to other centers for review for incorrect or outdated addresses.	
A9:	(All concerned) Send ADLIST corrections to NDS.		
A10:	(NEA-DB)	Update the NRDC web page (kept by NEA-DB) and add a page on Frequently Asked Questions (FAQ).	
A11:	(All)	Send contributions to the FAQ page to NEA-DB	
A12:	(NEA-DB)	Provide a link from the NRDC page to the Network document.	
A13:	(All)	Provide a link from their home page to the NRDC page.	
A14:	(All)	Add Sophiya Taova's e-mail address to the distribution for CP memos: Taova@expd.vniief.ru	

CINDA-2001

A15: (McLane, Kellett, Schwerer, Maev)

		To check the Archive-Dictionary 13 codes (Reaction Type) for use in CINDA-2001 and see if the new format in Memo CP- C/266 can then be adopted for CINDA-2001 using these codes as the quantity field.
A16:	(All)	Check the codes in Archive Dictionary 13 and send comments to McLane and Schwerer. (<i>Note: A listing of Archive</i> <i>Dictionary 13, which is not identical to "Exfor" dictionary 13,</i> <i>was distributed at the meeting; it is also available from the</i> <i>NDS Open Area.</i>)
A17:	(McLane)	Update and distribute preliminary CINDA-2001 Manual and include the proposal for cross referencing works with several laboratories

EXFOR/CINDA Dictionary System

A18:	(Schwerer)	(Old A11) Check old actions 7-13 of the 1997 NRDC meeting.
A19:	(McLane)	(Old A15) Send DANIEL dictionary memos to NDS
A20:	(Schwerer)	(Old A17) Make dictionary transmissions four times a year
A21:	(Schwerer)	Put the archive dictionaries on the NDS Open area
A22:	(All)	Check the archive dictionaries and send comments to Schwerer
A23:	(Chukreev)	(On WP14:) Produce a proposal on Dictionary 27 including citing examples and REACTION codes (SF1-4)

EXFOR, general (programs, manual, compilation)

A24:	(McLane)	Investigate whether the computer program for comparing experimental CINDA works with EXFOR is still available and send it to NDS
A25:	(McLane)	(Old A26) Correct EXFOR processing codes to properly treat cases where KT is given instead of an average incident particle energy (3/2)
A26:	(All)	(Old A27) Check and retransmit all entries included in the list of pending retransmissions by McLane distributed at the 1999 NRDC meeting
A27:	(All)	Send feedback on the updated EXFOR Basics Manual to McLane.

A28:	(Chukreev)	Send latest version of TEST-EXF to NDS.
A29:	(Dunaeva)	(Old A24 on McLane) Make a benchmark test of Chukreev's code TEST-EXF vs. CHEX
A30:	(Tarkanyi)	Distribute updated list of references missing in EXFOR obtained in the framework of the CRP on Medical Radioisotope Production.
A31:	(CPND cente	rs) Go through this list and communicate to Tarkanyi which works from their area of responsibility they will compile. Works not covered this way will then be free to be compiled by others.
A32:	(NEA-DB,ND	OS) Convert remaining 60000 and 70000 series entries to proper EXFOR entries of area 2 and 3.
A33:	(All)	In view of the poor statistics for EXFOR compilation of recent works, all centers should give higher priority to new works.
A34:	(McLane)	Send a memorandum of understanding about the compilation responsibilities resulting from the agreement with Phys.Rev.C to all participating centers.
A35:	(Dunaeva, Ch	nukreev) Establish contact to the publisher of Yadernaya Fizika about an agreement similar to the data archiving agreement between NNDC and Phys.Rev.C.
A36:	(Blokhin)	Submit his compilation of emission spectra of photonuclear reactions to Varlamov for possible inclusion in EXFOR

EXFOR Coding Rules and Dictionary Codes

A37:	(McLane)	(Old A31) Check existing codes for fission quantities for possible overlap with the case of Memo CP-C/209 and existing EXFOR entries for necessary revisions
A38:	(McLane)	(Old A34) Submit LEXFOR entry on the use of RCL and RSD in SF7
A39:	(McLane)	(Old A36) Provide more information on the proposal containing "PN" (prompt neutrons) in SF7 (Memo CP-C/235)
A40:	(All)	(On WP4) Propose new, general way of coding cases such as the examples in WP4 (proposed codes PAR/M+,DA,G, etc.)
A41:	(McLane)	Include LEXFOR entry for POL,DA/DE and POL,DA/DE,,ANA
A42:	(McLane, Sc	hwerer) Reply to the proposal on new units for dictionary 25 (P/PTMEVSR etc.) given in memo CP-A/99 (reproduced in WP6, p.7)

A43:	(Babykina)	Submit a counter-proposal for coding Isobaric analog states (ref.
		WP7, CP-C/264) within 2 months after the meeting.
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A44: (McLane) Update LEXFOR for ,WID/STR and PAR,WID/STR

Ion Beam Analysis Data (WP 23 by NEA-DB)

A45: (Kellett) Obtain quasi-EXFOR files from Vickridge and distribute these to appropriate centers for addition of extra information (e.g. BIB section)

A46: (All relevant centers)

Upon receipt of quasi-EXFOR files from NEA-DB, add the required additional information to make them legal EXFOR files to be distributed through the usual process via the NDS open area. As time allows, any missing data which is given in the original

As time allows, any missing data which is given in the original reference paper can be added.

- A47: (Kellett) Obtain information on "standard" Rutherford cross sections and investigate how these can be used to produce r33 format files as output in the ratio to Rutherford format.
- A48: (NNDC, NEA-DB) Allow the r33 format to be one of the standard computational formats for output so that the IBA community can continue to use this format within their simulation codes.

Software Development

A49:	(All concern	ed) (Old A50) All centres using NNDC programmes should
		check the NNDC open area 'FOURCS' for program updates.
		(Only important changes will be announced by e-mail, others
		have to be identified by the version date.)
A50:	(NDS)	(Old A53) Investigate possibility to organize a workshop on

nuclear reaction data plotting.