

**PROGRESS REPORT**  
**to NRDC Technical Meeting ( 18 - 20 May 1999, Vienna)**

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**1. Introduction.**

In CJD during the period passed after previous Meeting the current work continued concerning CINDA and EXFOR compilation and fulfillment of NRDC-98 Recommendations and Actions. Much efforts were applied to create CJD Web page and to guarantee access to it from the users. Evaluation works were also in process. The details are given below.

**2. Results of CJD-relevant ACTIONS fulfillment**

The most of actions and recommendations concerning CJD have been fulfilled.

- Item A4. Forward all future ENSDF, NSR, and NUDAT update tapes (received from NNDC through NDS) to VNIIEF

All ENSDF and NSR update tapes were forwarded to VNIIEF.

- Item A23. Within one month after the meeting, send feedback on the proposal for CINDA 2000 to V.McLane (see MEMO CP-D/234 of May 1997, reproduced in 1997 Meeting report)

Discussed during the stay of S.Maev in NNDC in August-Sept. 1997. General conception was approved. Some doubts were expressed concerning V.McLane's ability to fulfil such great amount of work.

- Items A30-A31. After receiving of CD-CINDA version from NEA-DB send feedback to NEA-DB and inform it of the number of copies needed.

Because in CJD at present there are very little computers with CD-ROM ports - this question is now not relevant. It might acquire significance in future when new hardware will be available.

- Item A34. Give feedback on the CINDA coverage lists (WP11) to Lammer.

Not clear what feedback is necessary. Most of the sources mentioned are currently processed. Others appear irregularly and cannot be processed in CINDA, especially those appearing in belorussian language. Preprints from JINR-Dubna appear very seldom.

- Item A41. (Old #14 continuing) Send comments and corrections on the "EXFOR Basics" Manual to V.McLane.

Comments on "EXFOR Basics" Manual are sent to V.McLane.

- Item A53. Send all TRANS tapes to be included on EXFOR Library on CD-ROM to NDS before 1 Oct.1998

Before 1 Oct. 1998 two exchange tapes were transmitted: 4109, 4110. Entries contained in these tapes may be included in CD-ROM in question.

- Item A55. Correct entries requested in CP-D/297 (or send information on which TRANS corrections was transmitted if done already), of explanation in case of disagreement with memo CP-D/297.

Entries partly corrected and transmitted. Some disagreements occurred but for details some new discussions are necessary.

- Item A61. Agree on modifications for Entry 40420 and retransmit (Old #49 continuing). CJD + Lammer.

Entry 40420 is corrected and waiting for transmission - obviously after renewing normal exchange procedure. Some more Entries have to be corrected after Fission Products codes modification supposed to be accomplished at this NRDC meeting.

- Item A72. Maev: Submit proposals (including LEXFOR entry) for self-indication

Proposals on Self-indication are prepared and transmitted.

- Item A75. CJD: Complete conversion of EXFOR 8000 series by end of 1998.

All 8-Series Entries are converted to normal 4-Area series.

### **3. CINDA and EXFOR activity.**

Since May 1998 up to April 1999 the CJD transmitted 4 CINDA batches (CJD028-CJD031) which included 3062 Entries in Exchange format and 472 Entries in Reader format. From other centers obtained 2858 CINDA Entries in Exchange and 134 in Reader format. All are loaded in Master file.

During this period nuclear data from 23 new publications were compiled into EXFOR. 18 Entries from 8-Area were converted to the standard 4-Area format and 13 of the 8-Area Entries were corrected and cross-correlated to the existing 4-Area Entries. 82 old Entries were corrected. In the total five (5) Exfor batches (4109 - 4113) were transmitted to other Neutron Data centers with 132 Entries (31 - new), 882 sub-entries (327 - new), total record number 25520.

### **4. COMPUTER AND SOFTWARE MATTERS.**

In 1998-1999 great efforts were applied to obtain better functioning of the INTERNET connection to other centers and to create accession possibilities from other centers. This was accomplished at the beginning of the current (1999) year and now the connections are rather stable.

The practical rate of data transmission varies in wide limits: from 0.03 to 50 Kb/sec, usually being nearer to the lower one. This rate do not depend on the CJD local net functioning and managing.

Our local net now consists of one Pentium-II / 266MHz / 64 Mb RAM / 10 Gb HDD Server, Alpha AXP 3600 computer with Open VMS 1.5 and approximately 20 computers comprising AT 486 and Pentium devices.

Now we can read CD-ROMs but at the present time CJD has no possibility to write information on CD-ROM. However we plan to acquire necessary device.

In CJD is very high appreciated the delivering of new codes from NNDC for replacing old CSISRS processing programs in connection to 2000 year. Some difficulties arised in this connection have to be overcome. Test of the new programs is in process. One of these difficulties consists of the *break-up* of former retrieval program CSISONL, and of CINDA updating program CINDUP. Second difficulty is the emergency interruption of program CSIMER during uploading of the new tapes TRANS 4113 and TRANS 1271. The reason of this is not found.

## **5. EVALUATED DATA.**

In CJD continues the work of evaluation of GAMMA-ray yields and spectra for some structural and technological materials. On the base of existing and newly developed systematics the evaluation of the (N,NP) and (N,NA) reaction cross-sections for calculation of structural materials' activation was made.

## **6. CUSTOMER SERVICE.**

As mentioned above, the RNDC open area is now accessible to all users of the World Wide Web. CJD World Wide Web pages is:

<http://WWW.RNDC.IPPE.OBNINSK.RU>.

Now CJD WWW pages offer direct WWW access to nuclear data bases (BROND-2, ADL-3, and RRDF-98<sup>1</sup>) and abstracts and some papers from the journal **Yadernye Konstanty**. WWW pages from other libraries (for example, MENDL<sup>2</sup>) are now in preparation.

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<sup>1</sup> RRDF-98 - Russian Reaction Dosimetry File, version 1998

<sup>2</sup> MENDL - Medium Energy Neutron Dosimetry Library