

# **PROGRESS REPORT**

## **to NRDC Meeting (12 - 14 October 2005, Vienna )**

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### **Introduction.**

During the period passed after previous Meeting the current work was continued concerning EXFOR compilation and fulfillment of NRDC-2004 Recommendations and Actions. Much efforts were applied for restoring CJD Web-site and guarantee access to it from the users. A large part of activity was related to the nuclear data evaluation. The details are given below.

### **1. Staff**

During the last year:

A. Two staff members joined the center.

Vladimir Pronyaev (pronyaev@ippe.ru) joined the center as leading scientist working in the field of development of theory of nuclear reactions, nuclear model calculation and evaluation of neutron data, analysis of nuclear data uncertainties.

Aleksej Storozhenko joined the center as senior researcher for nuclear data calculation and evaluation.

B. Six staff members left our Center:

Nikolay Kulagin, who was responsible for the software of the RNDC computer network, Internet information service;

Sergey Krivchikov, responsible for development and maintenance of CJD Web-site and personal computers software maintenance;

Saria Nasyrova, responsible for data processing for the activation and radiation damage data libraries.

Others are 3 technical staff members.

### **2. CINDA activity.**

The CINDA activity is continued. However, since October 2004 up to present time the CJD didn't transmit any CINDA batches because of stopping CINDA compilation into old format and absence of editor code for new CINDA format.

### **3. EXFOR activity.**

All journals available at the Institute library are checked for the presence of the experimental data.

Exfor Trans 4133 was transmitted to NDS as final.

Exfor Trans 4134 is now declared as final.

Exfor Trans 4135 is declared as prelim now.

TRANS	TRANS- Flag	Entries Total	Entries New	Entries Revised	Subents Total	Subents New	Subents Revised
4133		23	4	19	149	53	96
4134	Final	18	11	7	67	40	27
4135	Prelim	50	6	44	126	19	127
Sum		91	21	70	342	112	250

The number of experimental works was decreased in Russia, the most of them were made under financial support of different funds: ROSATOM, ISTC, RFBR or INTAS.

The efforts were made to establish cooperation with authors to get numerical data (Khryachkov's data).

At present time we have begun to scan experimental data from graphics. It will let us to increase the number of compiled articles for EXFOR library.

#### **4. Computer and software matters. WEB-site service.**

During 2004-2005 years the large efforts were devoted to development and better functioning of the Internet Web-site of Russian Nuclear Data Center. The RNDC Web-site <http://www.ippe.ru/podr/cjd/> is now available to users via Internet access.

Some upgrade of computer's hardware and software was made.

Secure FTP shell was successfully installed for secure access to NDS open area for up- and downloading.

The last version of ENDVER is installed in many PC of Nuclear Data Department. The number of scientists and researchers using the Retrieval System for EXFOR data base developed by V.Zerkin is increased substantially. A lot of CD-disk copies were prepared by CJD and distributed to other IPPE departments.

#### **5. Nuclear data evaluation activity.**

The main efforts of CJD in the data evaluation activity are directed to analysis of available evaluated data files and selection of the best ones with point of view of microscopic and integral experimental data and nuclear theory model calculations. This work is being done mainly by A.Ignatyuk, V.Manokhin and V.Pronyaev in close cooperation with M.Nikolaev's group.

A.Blokhin's group is engaged activity in nuclear data evaluation and practical calculation of the activation and radiation damage of structural materials for fission and fusion reactors.

#### **6. Publications.**

Two issues of journal "Yadernye Konstanty" were published during 2004 year. The electronic copies of this issues were sent to NDS for translation in English and publishing as NDS reports. During 2005 year issue 1 is prepared for publishing.

#### **7. Acknowledgments.**

We greatly appreciate the help of Otto Schwerer and Liam Castello to overcome our problems for secure access to the NDS open area and Naohiko Otsuka also for help in the successful compilation.