

**CJD PROGRESS REPORT****NRDC Technical Meeting****(06 - 09 May 2014, Congress Center Smolenice, Slovakia)**

Russian Nuclear Data Center

(CJD, IPPE, Obninsk, Russian Federation)

**Introduction**

During the time passed after the previous NRDC2013 meeting the current work concerning EXFOR compilation and fulfillment of NRDC2013 Conclusions and Actions was continued. Large part of activity was related to the nuclear data evaluation.

**1. Staff**

At present moment the CJD center is in reorganization process. It's planned that CJD will be a laboratory within the theoretical division of "Department for perspective researches" in the State Scientific Centre of the Russian Federation – Institute for Physics and Power Engineering named after A.I. Leypunsky – SSC RF – IPPE.

**2. EXFOR activity.**

After the NRDC2013 Meeting:

- Exfor Transes 4160-4162 were transmitted as final;
- Exfor Trans 4163 was transmitted as preliminary.

**EXFOR compilation statistics – area 4**

Trans	Date/status	Entries Total	Entries New	Entries Revised	Subents Total	Subents New in old+in new	Subents Revised (cor.+NOSUBENT)
4160	21-06-2013/final	24	2	22	235	0+6=6	229
4161	24-12-2013/final	47	3	44	490	12+13=25	455+10=465
4162	14-02-2014/final	50	8	42	272	28+35=63	202+7=209
<b>Final</b>		<b>121</b>	<b>13</b>	<b>108</b>	<b>997</b>	<b>94</b>	<b>903</b>
4163	17-04-2014/prelim.	33	3	30	232	68+18=86	139+7=146
<b>Total</b>		<b>154</b>	<b>16</b>	<b>138</b>	<b>1229</b>	<b>108+72=180</b>	<b>1025+24=1049</b>

-The efforts were continued to get numerical data from authors.

Good cooperation was established with Russian authors:

V.Shorin, V.Piksaykin, V.Khryachkov (4RUSFEI);  
 O. Shcherbakov, A.Vorobiev, I.Guseva (4RUSLIN);  
 V.Dement'ev (4RUSKUR);  
 A.Filatenkov (STC "Yafi" near 4RUSRI );  
 Sh.Zeynalov, D.Testov (4ZZZDUB).

- Neutron induced data Transes were checked and comments were sent:

- 10 for area 1,
- 2 for area 2,
- 5 for area 3.

- Russian journals YF, AE, IZV, PTE, ZET, ZEP, FCY, FCY/L are scanned and information for CoCoS is sent to NDS in coordination with V.Semkova.
- Four memos (# 204-207) were prepared and sent for NRDC community for discussion:
  - Reply to draft of NRDC2013 Conclusion C6
  - New codes for dictionary 36/236- PR/TER,NU/DA,N+FF, PR,NU/DA/DE,N+FF/N
  - New codes for dictionary 36/236- SEC,KE
  - Free Entries numbers in EXFOR.

### **3. NRDC2013 Actions.**

CJD is responsible for NRDC-2013 Actions: 1, 6, 7, 9, 10, 11, 24, 36, 39, 44, 45, 46, 53, 54, 59, 65, 73, 76.

A1 – All the articles registered ( 21.04.2014 ) in CoCoS were compiled.

A6 – All very urgent and urgent corrections were made ( 21.04.2014, last prelim.trans 4163). The normal corrections will be continued.

A7 - Anatoly Andreev was nominated from the CJD for participation in the EXFOR working group coordinated by V.Zerkin.

A9 – No questionnaire was received, so no feedback was sent.

A10 – Feedback on NRDC paper for ND2013 was sent.

A11 – Comments on the Network document were not sent.

A24 – Feedback on new covariance format was sent by V.Pronyaev.

A36 – Checking was started but has not finished yet. Some new data were added in EXFOR.

A39 – Finished in prelim.4163.

A44, 45, 46 – Not all the English translations of AE, YF, YK, IZV were added. The Actions will be continued.

In corrected Entries – complex corrections are done in all SUBENTs and found misprints, mistakes, duplications (not mentioned in NDS error list) are corrected.

Added for AE -15, YF – 27, YK – 25, IZV- 4, FCY -1, ZEP -2, ZET – 2, PTE – 1, KIEV conf. – 1, NIIAR- -1, ICD- - 1 - total 80 .

A53 –Addition of data according to NODATA list will be continued

A54 – Feedback on WP2013-25,-26 was not sent

A59 – Usually feedback on CHEX is sent in comments of transes.

A65 – X+ format is not used in compilation, but a comment from author (V.Khryachkov) was sent and discussed.

A73 – No feedback on GSYS was sent.

A76 – Feedback on Sarov's digitizer was sent.

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

- New versions of Sarov's digitizer and EXFOR dictionaries were copied and used in compilation.
- Tool of web-service for compilers developed by V.Zerkin, Janis Trans Checker (NEA DB) and CHEX are used to check transes.
- The information from web-site of users' feedback is helpful for correction of the old Entries.
- EXFOR status compilation web-page CoCoS is used for information about the articles registered for the compilation.
- CJD web-site (Russian/English) is still under reconstruction as also IPPE web-site.

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

Nuclear data evaluation process and compilation of nuclear data files for the BROND-3 project were continued in CJD. Testing and benchmarking of BROND-3 preliminary version is still going on, additions and updating are planned to be done. Finalizing is planned at the end of 2014.

#### **6. Journal YK.**

The journal "Yadernye Konstanty"-2011-2012, issue 1-2 is the last published one. The next issue 2013-2014 is planned to be prepared at 2014 year, if financial support will be obtained for this publication.

YK 1999 – 2007 issues are available to read from the old CJD web-site <http://www.ippe.obninsk.ru/podr/cjd/> . Some translations are available at NDS web-site.

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

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- EXFOR data base users for their feedback and comments, which are important for EXFOR improvement.