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Subject:	CJD Progress Report for NRDC2016

**CJD PROGRESS REPORT for NRDC2016 Technical Meeting
 (7-10 June, 2016, Beijing)**

Introduction.

During the period passed after the previous Meeting the current work was continued concerning EXFOR compilation and fulfillment of NRDC-2015 Recommendations and Actions. A large part of activity was related to the nuclear data evaluation. The details are given below.

1. Staff

At present moment the number of CJD staff is 7 : 2 leader scientist, 2 senior scientists and 3 engineers.

2. EXFOR activity.

EXFOR compilation statistics

Trans	Date	Entries total	Entries new	Entries revised	Subents total	Subents New in old+in new	Subents Revised (cor.+NOSUBENT)
4168	12.05.2015	26	3	23	143	8+12=20	121+2=123
4169	10.08.2015	38	2	36	157	7+3=10	143+4=147
4170	13.11.2015	19	0	19	176	8+0=8	167+1=168
4171	16.11.2015	54	0	54	236	4+0=4	231+1=232
4172	16.02.2016	46	3	43	370	14+13=27	314+29=343
4173	10.03.2016	44	0	44	301	8+0=8	279+14=293
Total	6 files	227	8	219	1383	49+28=77	1255+51=1306

- Neutron induced data Transes were checked and comments were sent:
 11 for area 1,
 4 for area 2,
 4 for area 3.

- Memos prepared and sent for NRDC community for discussion:
one CJD memo (# 212) as reply to 4C3-401;
in collaboration with NDS – two memos (#896, 906);
in collaboration with NEA DB – one memo (#131).

3. NRDC2015 Actions.

CJD is responsible for NRDC2015 Actions:

A1 - Almost all articles registered (01.06.2016) in CoCoS were compiled (excluding 1 article). At allocation site – 53 articles, 43 of them were added at 2016 year.

A4 - Most of very urgent and urgent corrections were made, excluding 4 comments. Normal corrections will be continued for 304 comments.

A22 - **Finished.**

A23 -One was compiled (Zamyatnin,C,70Helsinki,2,183,1970). Will be continued.

A25 – **Finished**, memo #212 was sent.

A31 – All were compiled excluding D.D.Bogdanov+, R,JINR-P15-81-706,1981

A38-43 - Not all English translations of AE, YF, YK, ZEP, DOK were added.

The Actions will be continued. Added: AE –36, YF –72, IZV –22, INDC – 62(for YFI, YK), ZET -1 ,ZEP –4, DOK –1, PTE – 2, FCY/L – 1. **Total – 201** (at previous year – 139).

A46 – **Finished.**

A47 – Not finished yet. The rest: U-235-4 Entries (4 Subents),. U-238- 1 Entry (10 Subents). Others were digitized, but code UNOBT was not deleted.

A60 – **Finished.**

A66 – Not made, even I proposed twice to Naohiko to discuss.

A70 – No comments were sent.

A72 – **Finished.**

A76 – No feedback was sent.

A79 – No list was sent.

A87 – Some comments of digitizer were sent to G.Pikulina

4. Journal YK.

The journal “Yadernye Konstanty” (YK) is continued to be published as the online journal “Yadernye and Reactornye Konstanty” (“PROBLEMS OF ATOMIC SCIENCE AND TECHNOLOGY. SERIES: NUCLEAR AND REACTOR CONSTANTS”, YRK). YK 1997 – 2013 issues and YRK 2014-2016 are available to read from web-site <http://vant.ippe.ru/en/issues-archive.html> . The journal is included in the Russian Science Citation Index and available on the sites of Russia's scientific electronic library eLIBRARY.RU <http://elibrary.ru>.

Five issues (four regular issues and one special) of journal “Yadernye Konstanty” were published during 2015 year and one issue has been published in 2016 year.

5. Nuclear data evaluation activity.

New version of the evaluated neutron data library BROND-3.1 are compiled and includes 372 files for isotopes from hydrogen to curium and the incident neutron energies from the thermal one up to 20 MeV. A full scale verification of the library is performed on the basis of the optimal set of international benchmark experiments on neutron transmission and criticality safety. Uncertainties of the benchmark simulations are located in the range of experimental uncertainties for the majority cases or are comparable with deviations obtained with the last versions of international libraries.

The process of transferring BROND-3.1 to IAEA and OECD is in progress. BROND-3.1 will be also available on journal web-site “Yadernye Konstanty”.

6. Publications.

During 2015 year 5 scientific papers were prepared by the staff of the CJD and theoretical physics division (articles, preprints, reports to the Conferences).

- O. Achakovskiy, A. Avdeenkov, S. Goriely, S. Kamerzhiev, S. Krewald and D. Voitenkov. Microscopic nature of the photon strength function: stable and unstable Ni and Sn isotopes // EPJ Web of Conferences 93, 01034 (2015).
- K. I. Zolotarev. Evaluation of $^{238}\text{U}(n,g)$ and $^{238}\text{U}(n,2n)$ Reaction Cross Sections, including Analysis of Microscopic and Integral Experimental Data // Report INDC(NDC)-0682, IAEA, Vienna, 2015, pp. 55-62.
- V.G. Pronyaev, A.I. Poltavchenko. Evaluation of the $^{209}\text{Bi}(n,xn)$, $x = 2, \dots, 10$ cross sections for high-energy neutron dosimetry // Report INDC(NDS)-0682, IAEA, Vienna, 2015, p. 71.

7. Acknowledgments.

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