

WPEC/SG-39 Meeting, 1-2 December 2016

Revision of Actions

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OECD/NEA Data Bank

WPEC/SG39 meeting, 1-2 December 2016,
OECD/NEA Headquarters, Boulogne-Billancourt, Paris, France.

SG-39 Meeting, December 1-2, 2016: List of ACTIONS

Actions	<u>Deliverables, reports, databases</u>	
1. Action NEA	To edit and publish by next meeting the report based on the last versions ("Summary of Methodology" and "Comments on Covariance Data") provided by K. Yokohama and M. Ishikawa (JAEA)	

Summary of Methodology

G. Palmiotti, M. Salvatores (INL, USA)

K. Yokoyama (JAEA, Japan)

Comments on Covariance Data

M. Ishikawa (JAEA, Japan)


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In the summary report of the Subgroup 33, it was indicated that future development should focus on a research activity to provide criteria and practical approaches for the effective use of the results of sensitivity analyses and cross section adjustments, in order to provide feedback to evaluators.

It was pointed out that this goal requires addressing and solving a new series of issues. In particular, the definition of criteria to assess the reliability and robustness of an adjustment, criteria to assure the quantitative validity of the covariance data and to suggest guidelines to enlarge the experimental database in order to avoid as much as possible compensations and to meet needs that were identified by the cross-section adjustment.

In this context, the present report provides a contribution to the critical analysis of current covariance data files associated to the latest versions of the JENDL and ENDF evaluated data files.



RE: WPEC SG39 - Intermediate report - Message (HTML)

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You replied to this message on 29/11/2016 10:37 AM.

From: TARSİ Reka, NEA/SCI Sent: Tue 29/11/2016 10:34 AM

To: CABELLOS Oscar, NEA/DB

Cc:

Subject: RE: WPEC SG39 - Intermediate report

The intermediate report will be official and would be ready for the first half of 2017, but depending on its availability. The EXFOR being not official will be published by the January 2017.

Best,
Reka

SG-39 Meeting, December 1-2, 2016: **List of ACTIONS**

Actions	<u>Deliverables, reports, databases</u>	Status
2. Action E. Ivanov	To finalize report on MC sensitivity coefficients. Update some bibliographic references in the report.	To be done by next meeting
3. Action S. Pelloni	To complete report on PIA method utilization (adjusted results for more reactions etc.) and possibly to contribute to propagation experiments analysis and sensitivity coefficient data bases implementation.	To be done by next meeting (Presentation foreseen)
4. Action H. Wu	To finalize the report on “Stress Test on $^{235}\text{U}(n, f)$ in adjustment with HCI and HMI benchmarks”	To be done by next meeting (Paper at ND2016)
5. Action A.Barnes/Others	Produce report on the status of uncertainties of Am-241. Initiate by criticality safety problem for space application. Progress on this action should be reported at the next meeting.	Ongoing

SG-39 Meeting, December 1-2, 2016: List of ACTIONS

Actions	<u>Current activities:</u> <u>Methodologies and Experimental Benchmarks</u>	Status
6. Action G.Palmiotti/Others	Development of improved criteria for adjustment reliability (from methodology studies).	Progress to be reported at next meeting
7. Action M.Aufiero/G.Palmiotti	Continue to develop continuous energy data assimilation techniques. Possible application to a simple, few isotope cases.	To be reported at next meeting.
8. Action I. Kodeli	Provide sensitivities of ASPIS experiment.	Done
9. Action All	Analysing and using new experiments of elemental and separation of effects type: PROTEUS, FCA-IX, SEG, ASPIS-88, SNEAK, and MANTRA. This is the key action for SG39. At present, commitment only by INL (G. Palmiotti)	Some presentations foreseen at the meeting
10. Action All	Providing support for new industrial emerging needs helping for data uncertainty reduction (e.g. TWR)	Ongoing action
11. Action B.T. Rearden/ORNL	Provide SCALE6.2 covariance data in 33 groups for SG39.	By next meeting

SG-39 Meeting, December 1-2, 2016: **List of ACTIONS**

Actions	Starting from CIELO new files (without uncertainties) attempt new adjustment	
12. Action S. Kahler, G. Palmiotti	Processed CIELO (and ENDF/B-VII.0) infinite dilution cross sections in the standard 33 groups will be available for SG39. Provide feedback by energy range, reaction, and isotope using sensitivity database and C/E developed by SG39	
14. Action G. Palmiotti, I Kodeli,...	Perform extended adjustment using more elemental type of integral experiments and new adjustment strategies using CIELO data	

Note: some preliminary results will be presented at the meeting. Discussion expected

SG-39 Meeting, December 1-2, 2016: **Agenda**

Thursday, December 1, 2016

13:45 – 14:30	Welcome and actions review	Giuseppe PALMIOTTI Massimo SALVATOIRES Oscar CABELLOS
	Methods	
14:30 – 15:00	Detailed comparison of Progressive Incremental Adjustment (PIA) sequence results involving adjustments of spectral indices and coolant density effects on the basis of the SG33 benchmark.	Sandro PELLONI
15:00 – 15:30	ND assessment alternatives: Validation matrix vs XS adjustment	Evgeny IVANOV
15:30 – 16:00	"Implementation of Resonance Parameter Sensitivity Coefficients Calculation in CE TSUNAMI-3D"	Vladimir SOBES
16:00– 16:30	Coffee Break	
	Experiment analysis, sensitivity calculations and benchmarks	
16:30 – 17:00	Benchmark tests of ENDF/B-VIII.0 beta 1 using sodium void reactivity worth of FCA-XXVII-1 assembly (in place of M. Fukushima, JAEA)	Kenji YOKOYAMA
17:00- 17:45	Discussion on future of SG39 and possible new subgroup	All
17:45	Adjourn	

SG-39 Meeting, December 1-2, 2016: **Agenda**

Friday, December 2, 2016

	Adjustments	
9:00 – 9:30	Cross-section adjustment based on JENDL-4.0 using new experiments on the basis of the SG33 benchmark	Kenji YOKOYAMA
9:30 – 10:00	Comparison of adjustment trends with the Cielo evaluation	Sandro PELLONI
10:00 – 10:45	Expanded adjustment in support of CIELO initiative	Giuseppe PALMIOTTI
10:45 – 11:15	Coffee Break	
	Discussion on perspectives and actions	
11:15 – 11:45	WPEC sub-group proposal: “Investigation of Covariance Data in General Purpose Nuclear Data Libraries”	Vladimir SOBES
11:45- 13:15	Lunch Break	
13:15 – 14:00	Date and place of the next meeting, any other business	
14:00	Meeting closing	