

**Minutes of an Informal Consultants' Meeting**  
**IAEA-NDS, Vienna, 12 July 2001**  
**H. K. Vonach, A. Trkov, V. Pronyaev, M. Herman, R. Paviotti-Corcuera,**

**Subject: New International Reactor Dosimetry File: IRDF-2002**

**Background**

At the last INDC meeting (INDC/P(00)-15- June 2000) recommendations were made to update the IRDF-90 library. This task should be carried out as a Data Development Project with limited resources: e.g. 2-3 Individual Research Contracts (IRC) and one or two Advisory Group Meetings (8- 10 participants). The first of these meetings should be held during 2002.

As a provision related to this data development project several contacts were made and two IRC were granted. The two IRC contract holders are: E. Zolnay (Hungary) and K.I. Zolotarev (Russia). The contacted scientist willing to participate are: W. Mannhart (Germany), L. R. Greenwood and P. J. Griffin (USA). No nomination have been received neither from the NEA Data Bank nor from JAERI.

V. Pronyaev and V. Zerkov from IAEA, Nuclear Data section, are participating providing comparison plots and graphic software for evaluators.

A preliminary draft of a Progress Report was received from the Hungarian group, E. Zsolnay et al. In this report the libraries IRDF-90, RRDF-98 and JENDL/DF-99 were carefully and extensively compared. Main observations resulting from this report (Vladimir + Raquel) are:

1. There are differences greater than 5% for a large number of reactions.
2. It would be interesting to compare the product of the differences in cross section by the flux in order to get a better feeling of which differences in CS are important for reactor dosimetry.
3. There seem to be format errors and some inconsistencies in JENDL/DF-99 and RRDF-98 that need to be analysed by the evaluators.
4. The covariances information, as process by the code ACORNS, give inconsistent information for 20 cases out of 22 in the RRDF-98 and in 49 out 67 cases in JENDL/DF-99

An informal meeting with Prof Vonach (Vienna University) resulted in the recommended actions listed below.

**Actions:**

Request authors of the report to check calculations made referring to item 4 for possible reasons of the anomaly.

Request authors of the report about the possibility of comparing the product of differences in cross section by flux in addition to the comparisons already made (item2).

In order to shorten the list of discrepant cross sections (in view of limited resources to make the revision) Prof. Vonach suggested to reevaluate only cross-sections with differences  $> 5\%$ . Experienced evaluators like A. A. Filatenkov, D. Smith, W. Mannhart Y. Ikeda, J. Csikai, F. Froehner and S. M. Qaim were listed as potential candidates who might be interested in doing some reviews and participating in the selection of evaluations to be reviewed.

Prof Vonach requested a printed listing of file 1 (MF=1) for all reactions in the libraries IRDF-90, RRDF-98 and JENDL/DF-99 and documentation describing the procedures.