

NEACRP/NEANDC Evaluation Cooperation Proposal

Multigroup Cross-Section Processing

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In order to conserve resources and to provide easier end-user access to the benefits of the latest evaluation efforts, it is proposed that multigroup data processing be done to produce a comprehensive library based on the specifications for VITAMIN-J (see JEF/DOC-100, October 1985). This coordinated effort would take advantage of planned processing efforts at the IAEA Nuclear Data Section on FENDL, the NEA Data Bank on JEF-2, and the Radiation Shielding Information Center at ORNL on ENDF/B-VI. These efforts are planned because of the success of the VITAMIN-C (see ORNL/RSIC-37), VITAMIN-E (see ORNL-3503, February 1979), and VITAMIN-J libraries for reactor shielding and fusion applications. The processing system to be used would be NJOY99 from Los Alamos National Laboratory. The output formats would be GENDF and AMPX, the latter to be produced from the GENDF form (to be done at RSIC using MILLER). Suggested participants are Bob MacFarlane of LANL, John White and R. D. Wright of RSIC and ORNL, Enrico Sartori of the NEA Data Bank, and Doug Muir of the IAEA NDS. The final products would be available for dissemination via the NEA DB and RSIC in accordance with established procedures.