

BROOKHAVEN NATIONAL LABORATORY

MEMORANDUM

DATE: June 22, 1972

TO: R. A. Dannels

FROM: S. Pearlstein

SUBJECT: NNCSC-CSEWG Flowchart

Attached is a revised scope and flowchart of NNCSC-CSEWG activities as a result of ACRP discussions. Please incorporate this along with other revisions to be made in the scope-flowchart material distributed for comment to CSEWG.

Bill Hannum has offered to supply a letter to NNCSC stating that he encourages the NNCSC to limit CSEWG attendance to what it considers reasonable proportions.

jr
encl.

cc: W. H. Hannum

Scope of Cross Section Evaluation Working Group (CSEWG)

I. Objectives

- A. Maintain, update and extend the reference library Evaluated Nuclear Nuclear Data File Version B (ENDF/B) and establish standard formats and procedures for its use.
- B. Coordinate differential and integral testing of ENDF/B and utilize this information in determining the validity of ENDF/B data.
- C. Provide a forum for review of new differential and integral experiments, evaluations, and codes that are needed and develop information on specific topics such as cross section standards, resonance region formalisms, nuclear model codes, secondary libraries, etc. as related to the use of ENDF/B

II. Background

CSEWG was organized in 1966 by the AEC Division of Reactor Development and Technology for the purpose of assessing data evaluation needs and capability among its contractors and similar organizations. Since that time CSEWG has provided a forum where nuclear data problems can be discussed and evaluation activities coordinated. A prominent achievement of CSEWG is that it has brought about significant cooperation of the producer, evaluator, and user of data with each other.

III. Composition

CSEWG consists of a group of experts in cross section measurements, evaluation, and reactor physics from national laboratories, industrial organizations, and academic institutions formally committed toward achieving CSEWG objectives. Formal laboratory participation has been established by direct communication from the funding agency or laboratory management to the CSEWG chairman. There are also important contributions from other organizations on a regular but informal basis.

IV. Meetings

Two times each year meetings are held at BNL to plan and administrate CSEWG objectives. In addition to CSEWG meetings Subcommittee meetings, organized by each subcommittee chairman, are held adjacent to or during CSEWG meetings and at other times.

V. Administration

The National Neutron Cross Section Center (NNCSC) by request from DRDT acts as secretariat, providing a chairman, meeting facilities, personnel, preparation and distribution of material and other services as required.

The main entry points to ENDF/B are provided within CSEWG by the Data Testing (DTS) and the Codes and Formats (CFS) Subcommittees. The DTS, among other things, through its Phase I (microscopic) and Phase II (integral) data testing procedures reviews data sets considered for ENDF/B, resolves all physics questions regarding data, and provides the NNCSC with guidelines for preparation of ENDF/B. The CFS, among other things, establishes forms in which nuclear data may be included in ENDF/B so as to achieve the best balance between the detail necessary for specifying physics information and the simplicity required to facilitate its use.

Major decisions regarding CSEWG objectives are reached at CSEWG sessions with much of the details thrashed out at subcommittee meetings. Subcommittees, ad hoc committees, and task forces are appointed as needed. Presently, CSEWG has the following subcommittees:

1. Data Testing
 - a. Phase I review
 - b. Thermal reactor testing
 - c. Fast reactor testing
 - d. Shielding data testing
2. Codes and Formats
3. Normalization and Standards
4. Shielding
5. Resonance Region
6. Fission Products
7. Error Quantities
8. Nuclear Model Codes
9. Non-Neutron Data

CSEWG representation is by laboratory and not individual in order to assure continuity of participation. Experts from laboratories both inside and outside of CSEWG are present as needed. There is no attempt to include all experts on a problem but only a number such as is necessary to reasonably deal with the technical question at hand. Laboratory representatives in most cases are expected to bring to CSEWG a consensus of the broad data interests of their laboratory even if the subject matter may be outside their specialty.

Each laboratory should have a coordinator for CSEWG participation regardless of whether the coordinator regularly attends CSEWG meetings or not. Attached is a list of CSEWG laboratories and other participating organizations.

CSEWG - Laboratory

Aerojet Nuclear Co. (ANC)
Argonne National Laboratory (ANL)
Atomic Power Development Assoc. (APDA)
Atomics International (AI)
Bettis Atomic Power Laboratory (BAPL)
Babcock & Wilcox (B&W)
Battelle Northwest (BNW)
Combustion Engineering (CE)
Defense Nuclear Agency (DNA)
General Electric Co. (GE)
Gulf Energy and Environmental Systems (GEES)
Hanford Engineering Development Lab. (HEDL)
Knolls Atomic Power Lab. (KAPL)
Lawrence Livermore Lab. (LLL)
Los Alamos Scientific Lab. (LASL)
National Bureau of Standards (NBS)
Nuclear Fuel Systems (NFS)
Oak Ridge National Lab. (ORNL)
Rensselaer Polytechnic Inst. (RPI)
Savannah River Lab. (SRL)
U. S. Atomic Energy Comm. (USAEC)
Westinghouse Electric Corp. (W)

Coordinator

Hummel

Alter

Goldstein
Kaul

Schenter
Lubitz
Howerton
Harris

Cobb
Maienschein

Hemmig

Other

Atomic Energy of Canada Ltd. (AECL)
Columbia University
Mathematical Application Group, Inc. (MAGI)
Radiation Shielding Information Center (RSIC)
Stanford University

NNCSC-CSEWG Flowchart

