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The EFF Project Status and the NEA Nuclear Data Services

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The OECD Nuclear Energy Agency (NEA) Data Bank is part of an international network of data centres in charge of the compilation and dissemination of basic nuclear data. Through its activities in the reaction data field, the NEA participates in the production of data and their distribution to its users.

The NEA Data Bank administrates the collection and validation as well as the distribution of the Joint Evaluated Fusion and Fission (JEFF) library. The JEFF project has evolved from two separate projects, namely the European Fusion File (EFF) and the Joint Evaluated File (JEF), to JEFF with the latest release of the library, JEFF-3.1, in May 2005. The EFF Project is a collaborative project with work funded by the European Fusion Development Agreement (EFDA). The tasks within the project comprise new data evaluation and verification of activation and transport data, calculation methods and validation via integral experiments. The EFF project brings together all available expertise in Europe, relating to the nuclear data requirements of existing and future fusion devices. EFF contributed greatly to the successful release of the internationally recognised nuclear data library JEFF-3.1.

The NEA Working Party on International Nuclear Data Evaluation Co-operation (WPEC) is established to promote the exchange of information on nuclear data evaluations, measurements, nuclear model calculations and validation. WPEC provides a framework for co-operative activities between the participating projects, such as the high priority request list that is a collection of experimental data requests of special interest in a certain project, such as JEFF or ITER.

The NEA provides also computer program services for nuclear energy and radiation physics applications. Of special interest for fusion applications are the integral experiments, such as SINBAD, with radiation shielding and dosimetry experiments including many fusion neutronics shielding experiments.