

Nuclear Data Evaluation Activities in JAEA and the Mid-Term Plan

J. Katakura

Nuclear Data Center

Nuclear Science and Engineering Directorate

Japan Atomic Energy Agency

Japan Atomic Energy Agency (JAEA) was established at October 1, 2005 after the merger of Japan Atomic Energy Research Institute (JAERI) and Japan Nuclear Fuel Development Corporation (JNC). Missions of the JAEA are followings: (1) Establishment of nuclear fuel cycles, (2) Research and development of nuclear fusion energy, (3) Contribution to hydrogen economy by nuclear process heat, (4) Quantum beam technology, (5) Research on nuclear safety, (6) Non-proliferation and safeguards technology, (7) Decommissioning of nuclear facilities, treatment and disposal of low level waste, (8) Cooperation with academic and industrial communities/ international collaboration/ human resource development/ atomic energy information and (9) Basic nuclear engineering research, advanced basic research. The nuclear data evaluation activities are provided for the mission of (9).

When the JAEA was established, the mid-term plan was issued to the Minister of Education, Culture, Sports, Science and Technology and was approved. The mid-term plan is the work list JAEA promises to perform during the mid-term which is from October 1, 2006 to March 31, 2010. In the mid-term plan the nuclear data activities are written as “With fuel burn-up rate becoming higher, FP and MA nuclide will be playing increasingly important role. Thus, efforts will be made to mainly assess such nuclear data, and to complete JENDL-4, the General-Purpose, Pre-Assessed Nuclear Data Library featuring expansive error data, so to enhance the reliability of nuclear calculation.” (From the JAEA English home page.). So the first priority of Nuclear Data Center is to complete the Japanese Evaluated Nuclear Data Library JENDL-4 until the end of the mid-term.

In the presentation, the activities of nuclear data center of JAEA will be discussed.