

§3. Study and Filing of Documents in the Planning Phase of the Fusion Energy Research Projects in Japan

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The JAEA (Japan Atomic Energy Agency) keeps a lot of materials which includes valuable documents on the important meetings and related information starting from the initial stage of the Japan fusion activities, the successful JT-60 national project and up to the international project of ITER. These materials were owned by three originators, Professor K.Yamamoto, Dr. S.Mori, and M.Yoshikawa, and later given to the Japan Atomic Energy Research Institute (JAERI) and now to the Japan Atomic Energy Agency (JAEA). Prof. K.Yamamoto and Dr. S.Mori were vice presidents of JAERI and Dr. M.Yoshikawa, the President of JAERI. They led not only the JAERI fusion energy development activities but have made a significant role in leading entire fusion research activities in Japan as well. Therefore, it is recognized important to keep their materials as archive in a systematic manner, which could be used by the researchers as records or for the study on fusion research and development history.

These materials stocked at various places in Naka and in Tokai sites of JAEA have been transported and accumulated in one working office in Naka site. Then from FY 2011, the registering and filing work was started for the materials owned by the Prof. K.Yamamoto, and from FY2012 the work for Dr. S.Mori continued to the end of FY 2013. The materials include those from 1950s, but the most important may be from the age of arguments on the so-called “B-program” in the late 1950s in the startup phase of the Japanese fusion program, through the integrated special programs under the Atomic Energy Commission, such as JFT-1 (Hexapole internal conductor machine), JFT-2 (the first Japanese Tokamak), and the era of construction and operation of the JT-60, one of the three largest tokamaks in the world and to the startup of the international ITER program. Prof. K.Yamamoto and Prof. S.Mori have also played a vital role in establishing national and academic specialist committees or meetings for the initial phase national project. Information and advices from Drs.T.Ohkawa and S.Yoshikawa who’s influence were enormous were also found. Toward the start of the JT-60 construction, public and congress persons’ supports were fully integrated. The roles of these leaders were significant.

Until the end of FY 2013, materials amounting to 431 on Prof. K.Yamamoto and 469 for Dr. S.Mori were registered and filed in 42 carton boxes (See Fig.1 and 2).

- (1) “From the initial stage of the fusion energy research to the JT-60 project”, S. Matsuda, H.Yoshida, H.Iguchi, Joint Fusion Energy Conference, Kobe, May 2012.
- (2) “Status of archive for the initiators on fusion energy research in JAERI”, S.Matsuda, Symposium on archive for natural science, NIFS, Jan. 2014.



Fig. 1 Materials filed in carton boxes



Fig.2 Carton Boxes for files registered on Prof. K.Yamamoto (front row) and for Dr. S.Mori (rear row)