

FOREWORD

During the last years the Nuclear Fuel Cycle and Waste Management Division of the IAEA has been giving great attention to the collection, analysis and exchange of information in the field of reactor fuel technology. Most of these activities are being conducted in the framework of the International Working Group on Water Reactor Fuel Performance and Technology (IWGFPT).

In addition to these activities, the Agency organized a number of meetings in other nuclear fuel directions, such as:

- Utilization of particle fuel in different reactor concepts
- Advanced fuel technology and performance
- Thorium-based nuclear fuel
- Advanced fuel for fast breeder reactors: fabrication and properties and their optimization.

The first Advisory Group Meeting on Advanced Fuel Technology and Performance in Würenlingen, Switzerland, December 1984, consisted of nominated experts from 12 countries with considerable experience and requirements in the area of advanced fuel technology for all types of reactors. The participants prepared a TECDOC which reflected the status of the advanced nuclear fuel programme, based on their national programmes and experience.

The purpose of this Advisory Group Meeting on Advanced Fuel Technology and Performance was to update and to continue the previous work, and to review the experience of advanced fuel technology, its performance with regard to all types of reactors and to outline the future trends on the basis of national experience and discussions during the meeting.

As a result of the meeting a Summary Report was prepared which reflected the status of the advanced nuclear fuel technology up to 1990.

EDITORIAL NOTE

In preparing this material for the press, staff of the International Atomic Energy Agency have mounted and paginated the original manuscripts as submitted by the authors and given some attention to the presentation.

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