

## **ACTION SHEET 1**

**between**

**Ministry of Science and Technology (MOST)  
of the Republic of Korea**

**and**

**The U.S. Department of Energy (DOE)**

**for**

**Cooperation on the Development and Implementation of a  
Safeguards System for DUPIC**

### **1. Introduction**

Under Article 3 of the Arrangement between DOE and MOST Concerning Research and Development in Nuclear Material Control, Accountancy, Verification, Physical Protection and Advanced Containment and Surveillance Technologies for International Safeguards Applications, dated September 19, 1994, DOE and MOST agree to carry out a cooperative effort in the development and implementation of a safeguards system for the Direct Use of Spent Pressurized Water Reactor Fuel in CANDU Reactors (DUPIC) Program.

### **2. Technical Scope of Work**

The scope of work includes the joint work in the conceptual design, development and implementation for measurement systems, material monitoring systems and materials control and accounting (MC&A) for an integrated safeguards system for DUPIC. The work will include a variety of studies on nondestructive assay (NDA), a review of possible approaches to nuclear material accountancy, investigation of unattended monitoring, an evaluation of required training, and implementation of a safeguards system for DUPIC. As the studies proceed, consultation will include those with the IAEA.

### **3. Program Management**

This work is to be carried out by Los Alamos National Laboratory (LANL) and Korea Atomic Energy Research Institute (KAERI). The work to be done is identified in Appendix 1. Appendix 2 identifies key personnel working on this project. Appendix 1 and 2 shall be reviewed annually and updated as appropriate.

LANL and KAERI shall work directly with each other in planning tasks and resolving programmatic and technical questions. Project work plans will be prepared with projected milestones for each phase of the work. Brief quarterly reports shall be prepared and circulated to DOE and MOST. LANL and KAERI shall prepare and present written and oral reports at the meetings of the Permanent Coordinating Group (PCG).

4. Fiscal Management

Unless otherwise agreed, all costs associated with the work described in this Action Sheet shall be the responsibility of the Party that incurs them. The ability of the Parties to carry out their obligations is subject to the appropriation of funds by the appropriate governmental authority and laws and regulations applicable to the Parties.

5. Duration and Termination

This Action Sheet shall enter into force upon the later date of signature and shall continue in force for 3 years or until mutually agreed by the parties that all activities under this Action Sheet are completed.

For the Ministry of Science and Technology  
of the Republic of Korea

Signature: D. Sul

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Name: DONG-DAE SUL

Title: Director, Nuclear Control Division

Date: 7th day of November, 1995

For the United States  
Department of Energy

Signature: Kenneth E. Sanders

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Name: Kenneth E. Sanders

Title: Division Director

Date: 7 November 1995