

# The International ISOE Programme ISOE Asian Regional Technical Center Activities

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## INTRODUCTION

The ISOE Asian Regional Technical Center was established on April 1992 in the Safety Information Research Center of the Nuclear Power Engineering Corporation (SIRC/NUPEC)\*1 according to the commission of the Japanese authorities, after the ISOE establishment in January 1992. The participating authorities in Japan are the Science and Technology Agency and the Ministry of International Trade and Industry, and the participating utilities are all (ten) Japanese electric power companies operating the nuclear reactors and the PNC (Power Reactor and Nuclear Fuel Development Corporation). These participants, the Authorities and the Utilities, are actively exchanging with each other dose related operating information. The number of participating reactors is fifty-one; 49 Light Water Reactors, one Gas Cooled Reactor and one Advanced Thermal Reactor (Heavy Water Moderated Light Water Cooled Reactor).

\*1 SIRC: The Safety Information Research Center was established on October 1984 as the neutral and public organization, that collects, manages, analyses and evaluates the safety related information using the sophisticated information processing technology, based on the report of the Committee on Information Sophistication of Nuclear Power Generation that was set up in the Agency of Natural Resources and Energy of the Ministry of International Trade and Industry.

## ACTIVITIES to NOW

### (a) Data Collection

All NEA1, NEA2 and NEA3 data from FY 1990 to FY 1994 were collected from 10 electric power companies and PNC, and transferred to the European Regional Technical Center at the CEPN in France.

### (b) Distribution of Information

- Asian Regional Technical Center issued Information Sheets No. 1 and No. 2 in October 1995 that contained the graphs of Japanese occupational exposure trends, by reactor type, and also the periodical inspection dose trends by reactor type.
- Third Annual Report and Information Sheets were translated to Japanese, and distributed to the participating Japanese authorities and utilities.

### (c) Software developments for data collection and retrieval

#### - The Data Collection Software

The Asian Technical Center developed NEA1 data input module for Japanese data collection with the commercial software (MAGIC) in FY 1992 and modified every year according to the change of the DIF file format.

#### - The Data Retrieval Software

The Asian Technical Center developed the data retrieval system for selected NEA1 data with commercial software of PARADOX for Windows in order to enhance the typical retrieval function and distributed the database system using a Run-Time version to the Japanese utilities for better understanding of ISOE data base.

## PROGRAMME of WORK for FUTURE

### (a) Participation

The Republic of Korea shows the interest in participating in ISOE and is expected to join in the near future through the Asian Regional Technical Center.

### (b) Data Collection and Exchange with the other Technical Center

The Asian Technical Center will collect for every year all of ISOE data from Asian region and transfer the collected data to CEPN with DIF files

### (c) Distribution of Information

The Asian Technical Center will issue the Information Sheets to introduce the dose control status, the dose reduction activities and so on inside Asian region. Also, the annual report and Information Sheets from other Technical Centers will be distributed to members and translated to Japanese for the Japanese participating Authorities and Utilities.

### (d) Software Development

#### - The Data Collection Software

The data input module will be modified every year according to the change of data collection format, the addition of new term or so.

#### - The Data Retrieval Software

The data retrieval system for selected NEA1 data will be modified using the commercial software of PARADOX for Windows in order to distribute the more sophisticated analysis tool for utilities.

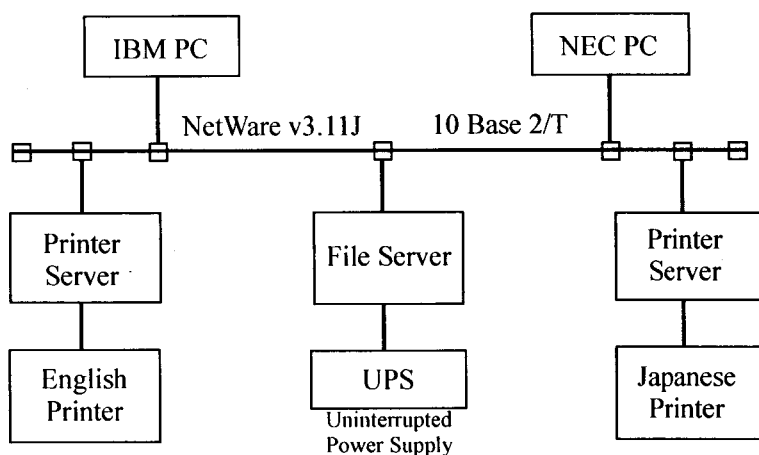


Figure 1. The Computer System of Asian Regional Technical Center