

Project of Events Evaluation to Verify the Safety (1)

1. Project Objectives

In order to ensure the safety of reactor facilities, it is very useful to make use of the information on incidents or accidents that have occurred at the similar facilities.

Furthermore, it has recently become clear that it is effective for the prevention of serious events to collect operational information, which cannot be considered even as incidents or accidents, and to carefully analyze and evaluate them.

For this reason, it is necessary to collect and analyze information of not only malfunctions, failures and troubles, but also other miscellaneous operational information of domestic and overseas reactor facilities etc.

The Organization, also utilizing international networks, collects the safety information, develops and analyzes its database, and proposes measures for safety assurance.

Moreover, since it is also a key issue to enhance the transparency of the safety regulations, in order to obtain the general public's confidence of securing nuclear safety, the Organization provides easy-to-understand information on the safety regulation.

2. Project Outline

(1) Collection and Processing of Information

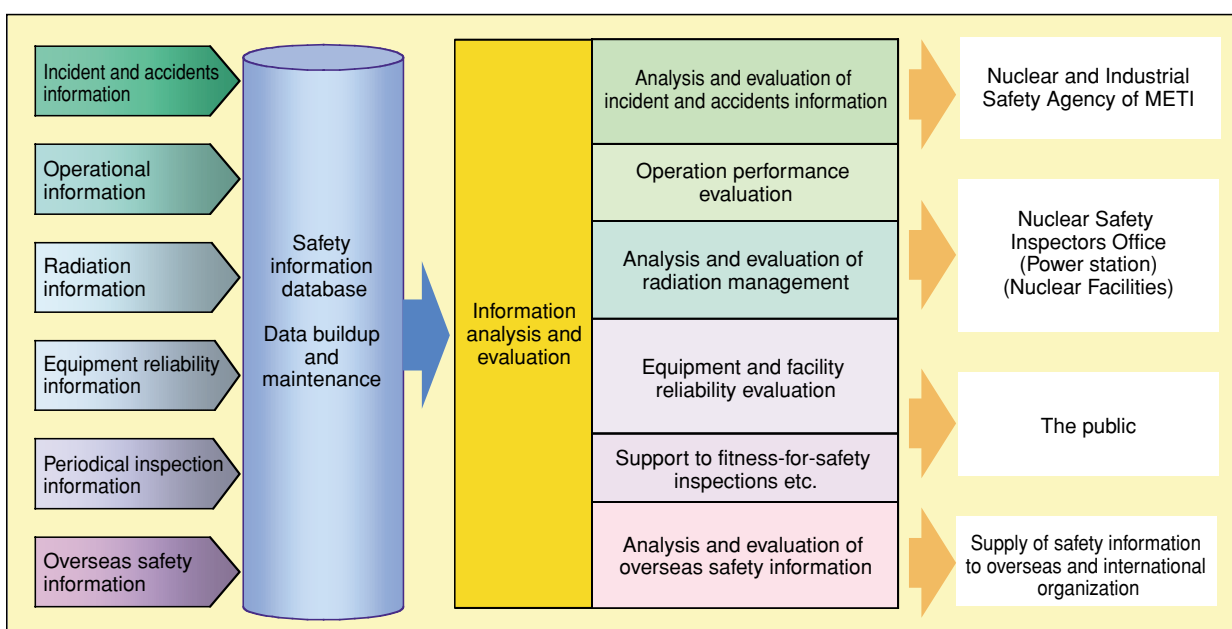
Information, such as operational performance, incidents and accidents reports, radiation management, etc. at domestic and overseas reactor facilities, has been collected and processed, and the database has been established.

(2) Information Analysis and Evaluation

The collected operational information, incident and accidents information and radiation management information of reactor facilities etc. are analyzed and evaluated, and corrective measures are proposed.

(3) Supply of safety Information and Public Relations

With the purpose of enhancement of nuclear safety and also obtaining the public understanding and confidence, measures and policies about nuclear safety regulation and the information of nuclear safety including the analytical and evaluation results are provided to local governments and the residents of reactor facility site areas, and



3. Accomplishments of Project

(1) Analysis and Evaluation of Incident and Accidents Information

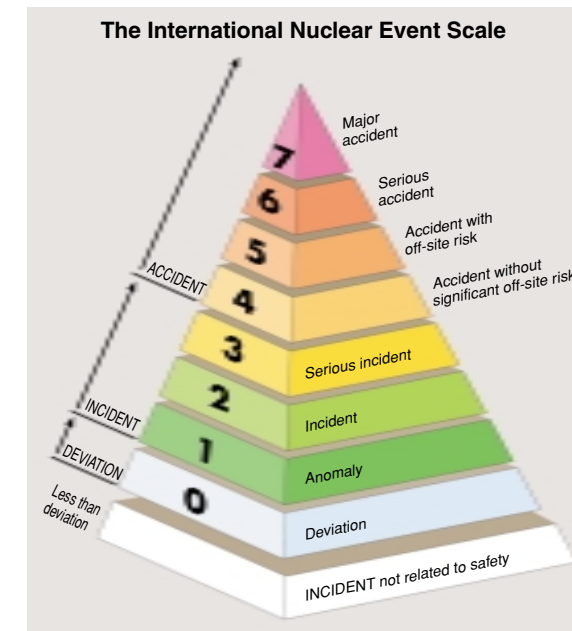
The domestic and overseas information on plant incidents and accidents has been processed and stored in the database.

Incidents and accidents at overseas plants were reviewed and evaluated for their causes, measures etc., and the information was studied to prevent occurrence of similar incidents at domestic plants.

When an incident or a accident occurred at a domestic plant, the similar events were searched immediately and the related information was provided to evaluate their causes and to establish counter measures for them.

Moreover, the Organization supported the INES (International Nuclear Event Scale) evaluation of the events.

The feedback status of the preventive measures against incidents and accidents at domestic plants were followed up.

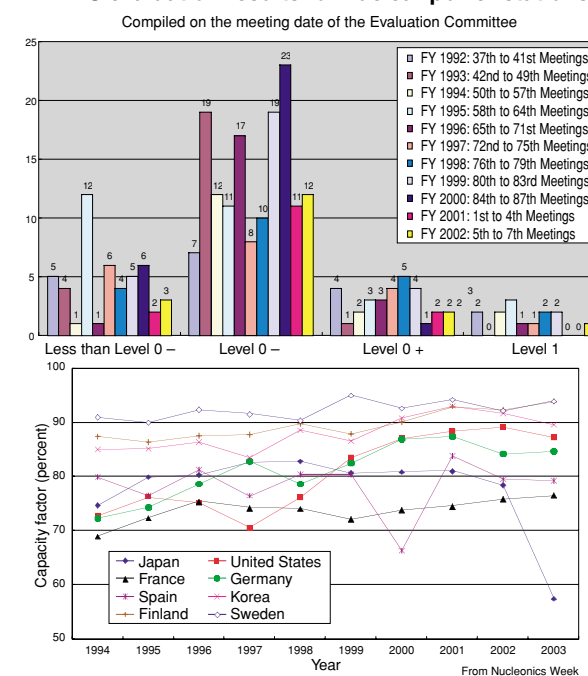


(2) Plant Performance Analysis

The information on operation, periodical inspections and radiation exposures of domestic and overseas reactor facilities was analyzed and evaluated, and the evaluation report with respect to the plant performance of domestic nuclear power plants was prepared.

Moreover, the proposal of domestic safety performance indicators (PI) for effective safety regulation has been developed, and the background for the plant performance improvement of overseas nuclear power stations was analyzed.

INES evaluation results for nuclear power stations



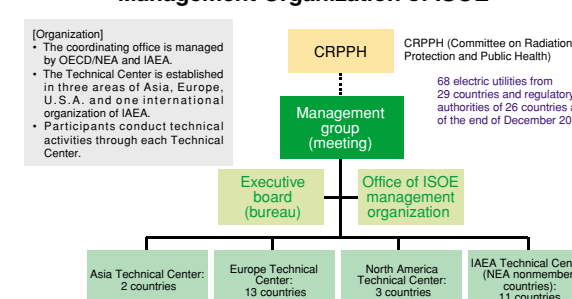
(3) ISOE Activities

The ISOE (Information System on Occupational Exposure) is a system for exchanging the occupational exposure data of nuclear power plants in OECD/NEA member countries aiming to reduce the exposure dose.

The Organization, as the Asian Technical Center, collected, evaluated and updated the exposure dose information of each nuclear power station of Japan and Korea. In addition, the Organization collects and provides data for a total of domestic and overseas 466 nuclear power units.

While the Organization reported the activities of the Asian Technical Center to the ISOE steering committee, it supported the information exchange through the ISOE network. (29 countries, 68 electric utilities and regulatory authorities of 26 countries participants)

Management Organization of ISOE

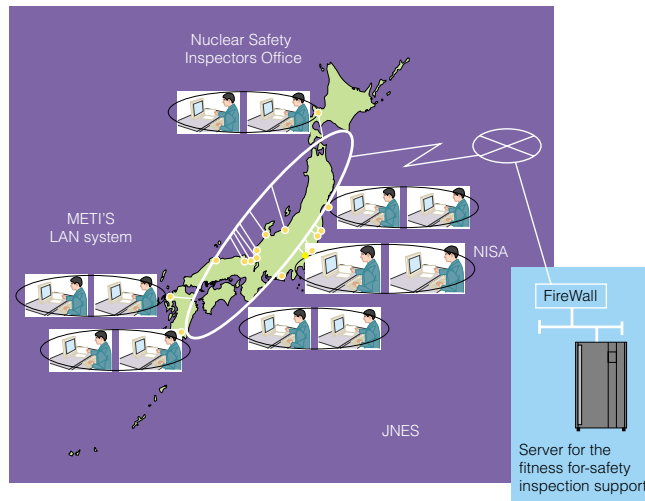


Project of Events Evaluation to Verify the Safety (2)

(4) Support for Fitness-for-Safety Inspection

A study was conducted with the aim of making effective use of the information concerning the periodic safety management review, periodic inspection and pre-service inspection, etc and the judgment of the results of each inspection and review.

Under the new inspection system, it is important to maintain capabilities of inspectors. The effective education and training system in Japan was studied by analyzing the training contents of inspector educational methodology and information on inspection-related matters necessary to understand the educational methodology, etc. in U.S.A., which were referenced for this study.



4. Sending Out and Offer of Information

Safety information was collected, and the analyzed and evaluated results were made available widely.

(1) Issue of Annual Report on Operation Management

Compiling the data collected and evaluated on operating nuclear power plants in Japan, the annual report is under preparation for issuance.

(2) Issue of Annual Report in English

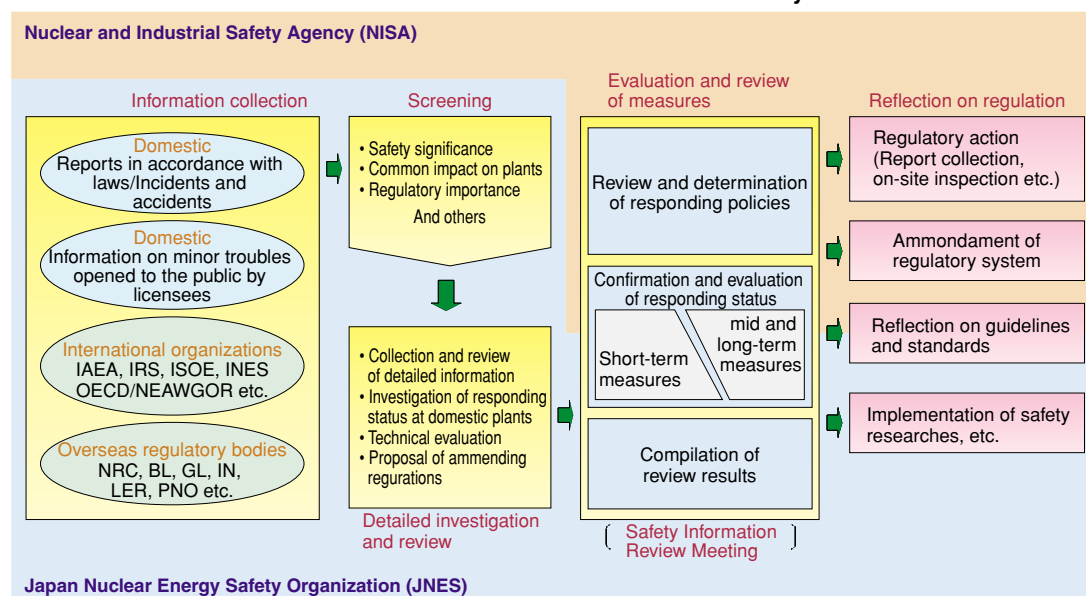
Fundamental operational data of nuclear power plants in Japan were compiled and provided for as an English version annual report to many foreign governments and international organizations.



(5) Safety Information Review Meeting

The Safety Information Review Meeting with the Nuclear and Industrial Safety Agency were held two times per month. The Organization provided the information on domestic and overseas safety issues, and they were reviewed to enhance the safety and improve the safety regulation of Japan.

Evaluation and Feedback of Domestic and Overseas Safety Information



(3) Issue of Safety Information to Overseas

English reports on troubles of domestic nuclear plants are prepared and provided to many foreign countries governments and international organizations, and they are provided on the English version website of the Organization.

In addition, the Organization have participated in activities (IRS: incidents report system, INES: international nuclear event scale, PRIS: power reactor information system etc.) of international nuclear organizations such as IAEA and OECD/NEA, and provided the safety information of Japan.

(4) Issue of Trouble Booklets

Booklets were prepared that explain troubles occurred at nuclear power plants in Japan in easy-to-understand way, and they were provided widely to the general public including the nuclear concerned persons.



(6) Study of Measures for Regulatory Improvement

The collected and processed information about overseas regulation etc. is analyzed and evaluated, and a proposal to be reflected on the regulation of Japan has been studied.

(7) Reliability Evaluation

Overseas method to collect and analyze reliability data was investigated, where PI and Risk Informed regulation are well applied, and a proposal for the collection and analytical methods in Japan has been studied.