

Decommissioning Process “**Common Issues**”
Investigation Subject “**Standardization**”

Needs

1. Standardizing the concepts, technologies, and equipment related to decommissioning work

Desired state and reasons for it

- The situation in Fukushima Daiichi NPS is not uniform, and individual measures need to be taken according to the status and the target. However, carrying out all the work according to the status and the target is not reasonable from the viewpoint of time, cost, exposure dose, and waste volume. Thus, a certain degree of standardization is desirable. It is desirable to clarify related issues as the fundamental information, and organize and structure the relationship between those issues.
- It is desirable to develop and standardize the 3D data to be collected, as well as the operation and display of equipment, in a format taking uniformity and scalability into consideration.
- Solid wastes are characterized by their diversity and substantial quantities. To advance characterization efficiently, it is desirable to develop and standardize analytical methods that can obtain data in a simple and rapid manner.

Current state against ideal

- Commonality of knowledge and technology is being investigated with regard to PCV internal investigation technology and fuel debris retrieval technology for Units 1 through 3. Maintenance technology for remote equipment is being investigated comprehensively for all Units.
- In the Government-led R&D Program on Decommissioning and Contaminated Water Management, efforts are being made to develop analytical approaches to obtain a data of solid waste characterization and to standardize rapid analytical methods by rationalizing and automating sample pre-treatment.
- Concerning the development of standard analytical approaches, the applicability to real samples was demonstrated at JAEA’s Radioactive Material Analysis and Research Facility Laboratory-1.

Issues to be resolved

- It is necessary to be standardized and clarify areas that can be rationalized from the viewpoint of time, cost, exposure, and waste.
- In standardizing as above, it is desirable to obtain and consolidate the necessary information and data. It is also desirable to establish an information platform for this purpose.

Relevant Issues