Phase: **Design**

Decommissioning Process **"Fuel Removal from SFP"**
Investigation Subject **"Confinement of radioactive materials"**
Issue **"Ensuring structural integrity"**

Needs

1. Maintaining structural integrity and seismic safety of SFP

Desired state and reasons for it

- At the beginning of the accident, the SFP structures were in contact with seawater, and some of the fuels are considered to have been damaged by explosions or falling rubbles. It is desirable to evaluate whether these structures have long-term integrity.
- It is desirable to understand the condition of microbial corrosion (MIC) and its effect on the integrity of SFP structures.
- The integrity of the SFP structures must be maintained even in the event of an earthquake. For this purpose, it is desirable to understand the seismic safety of the SFP.

Current state against ideal

- As for microbial corrosion, it was confirmed that there were microorganisms in the pool. Measures have been already taken by injecting hydrazine.
- The method to understand the condition of invisible places, such as piping in the pool system, has been established. The results show there is no problem even in the long term. In addition, the water quality of the lining is being managed so that no problems occur, so there is no problem with the boundary. Furthermore, the evaluation results of the seismic resistance of the building show that there are no problems.

Issues to be resolved

- There are no particular issues at present.

Relevant Issues

- SFP-101 "Understanding current status of SFP"
- SFP-201 "Understanding and preventing emission and leakage"
- SFP-301 "SF removal"