Decommissioning Process of Nuclear Power Plant



Standard stages of decommissioning (Note:) Boiling water reactor (BWR)





Unloading of spent fuel Spent and unused fuel is carried out to reprocessing plants and storage facilities, where it is subject to careful controls and processing.

System decontamination - clean-up Chemicals are used to remove as much of the radioactive substances remaining in the facility's piping and container vessels as possible in order to facilitate subsequent dismantling work.



Safe storage - standby

The facility is put into safe storage under proper management as long as required and then further dismantling awaits decay of radioactivity to facilitate that work.



Dismantling (1) - internal demolition To avoid release of radioactive substances to the outside, the equipment inside the building, such as piping and vessels, are first disman-



Dismantling (2) - building demolition

After confirming that the targeted radioactive substances from inside the building have in fact been removed, the building is dismantled in the same way as a normal building.



Site Use

tled.

The site can be used for a variety of purposes once it goes through legal procedures and its safety is confirmed. Alternatively, one current proposal is for the site to continue to be used effectively as a nuclear power site through cooperation with the local community.

(Note) The operator determines the specific method according to the conditions, and the Nuclear Regulatory Commission confirms the safety.

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