

Investigation for contaminated materials at Genkai unit 1

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The Genkai Nuclear Power Plant Unit 1 commenced operation in October 1975, was in service for almost 37 years, and terminated operation on April 27, 2015. The government approved the decommissioning plan on April 19, 2017, to officially commence the procedures.

Planned for an entire period of about 30 years, the decommissioning plan is divided into four phases: (1) preparation for dismantling, (2) dismantling and removal of facilities surrounding the reactor, (3) dismantling and removal of the reactor, and (4) demolition and removal of the building. Unit 1 is currently in the first phase.

During this period, demolition and removal of uncontaminated facilities will start. In the meantime, aiming to reduce radiation exposure, the main contaminated systems (RCS, CVCS, RHRS) will be decontaminated to the greatest possible extent. Then, contamination surveys will be conducted to estimate the distribution of radioactivity concentration remained in the facilities and the volume of radioactive waste materials to be generated. Based on the above results, appropriate dismantling and removal techniques and procedures will be developed to minimize exposure.

This presentation will outline the contamination surveys currently being under way at Genkai Nuclear Power Plant Unit 1.