

# Geological Survey on the Fault Lying under Kashiwazaki-Kariwa Nuclear Power Station

## 1. Purpose

The fault which lies under Kashiwazaki-Kariwa Nuclear Power Station was evaluated as no risk to seismic safety based on the results of detailed geological survey conducted as a part of safety inspection and seismic safety evaluation. However, the need for a more detailed examination of the fault such as the age of quaternary deposits was pointed out at the public hearing regarding earthquake and Tsunami held by the Nuclear and Industrial Safety Agency of the Ministry of Economy, Trade and Industry on August 10, 2012. In response to this, a geological survey is planned for the purpose of evaluating in detail the age of the geological layer in question.

## 2. Outline

### (1) Survey Locations

The survey will be done in the locations indicated below.

### (2) (Planned) Survey Period

From September 2012 to the end of February 2013

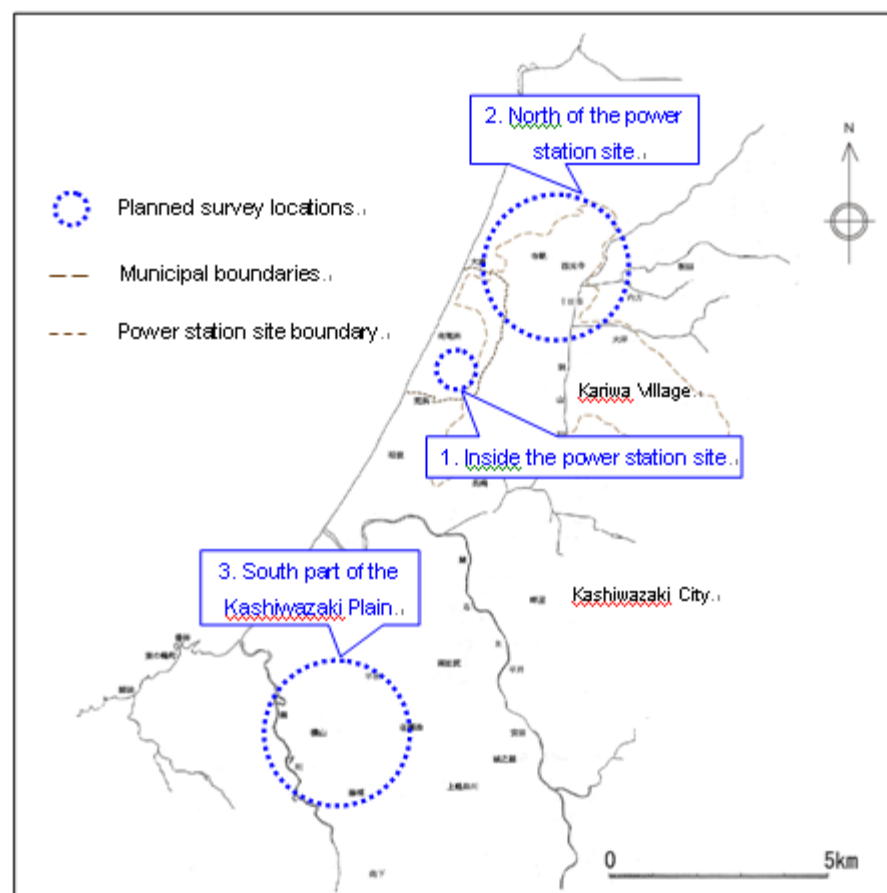


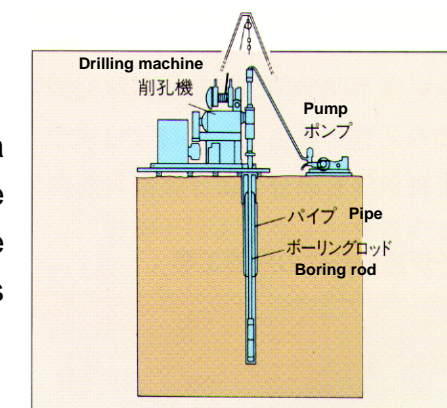
Fig. 1 Geological survey locations near and inside of Kashiwazaki-Kariwa Nuclear Power Station

### (3) Survey method

Boring survey will be done in the locations indicated in Fig. 1 in order to evaluate the age of quaternary deposits of Yasuda Layer, etc. A variety of analysis will be performed on the collected samples.

#### [Boring Survey]

Rocks which comprise the ground are continuously sampled in a form of rod-shaped core, and the geological conditions are studied based on the collected samples. By examining multiple of these samples, the distribution of geological layers (continuous distribution, etc.) can be revealed.



#### [Sample Analysis]

The fossil pollen contained in a geological layer can be used to estimate the climate (warm or cold for example) of the time the layer was formed. The fossil diatoms can also be used to estimate the environment (seawater or freshwater for example) in which the layer was formed. Based on the climate and environment estimated by examining the fossil pollen/diatoms contained in the samples collected at the boring survey, the age of the layer can be estimated.

## 3. Survey Schedule (Provisional)

Survey item	2012				2013		
	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
Boring survey	■						
Sample analysis		■					
Summarize results				■	■	■	■

(Note) The survey contents and schedule are subject to change depending on the progress of the survey.

End