

Current status of water of the lower permeable layer on the east side of the turbine buildings (sea side)

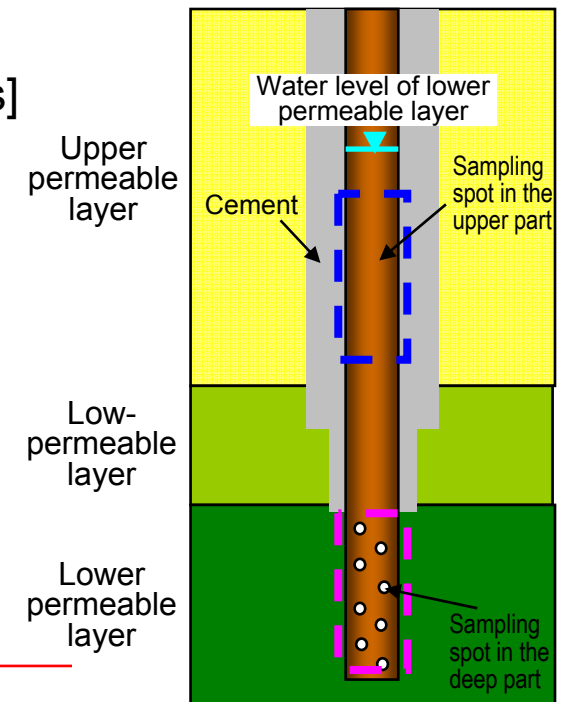
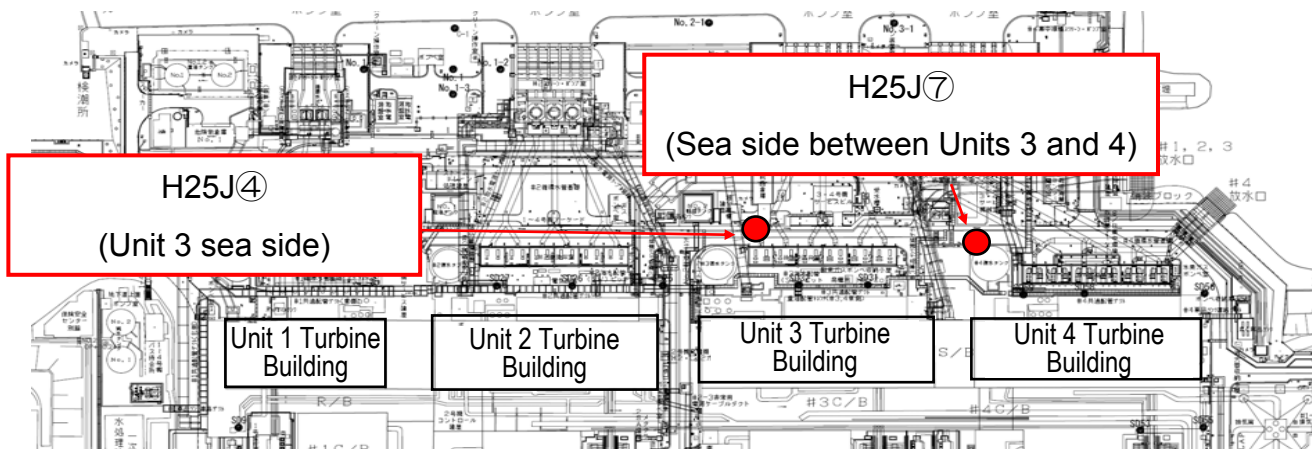
<Reference>

January 15, 2014

Tokyo Electric Power Company

- Samplings are conducted in new observation holes for the purpose of checking the quality of water of the lower permeable layer (the second permeable layer) on the east side of the turbine building.
- In the previous analysis, radioactive materials were detected from the sampled water, and the quality of water of the lower permeable layer is not clear yet. Therefore, various analyses are scheduled to be conducted in the middle of January.
- The results of samplings are as follows.
- Samplings were conducted on January 9 and 10 with different sampling methods, and the results were different by sampling method. Therefore, further samplings will be conducted, and the water quality will be evaluated thereafter based on the results of these samplings.

[Sampling locations and sampling spots for groundwater in the lower permeable layer (alternate layer) on the sea side of the turbine buildings]



Results of water analysis of the lower permeable layer on the east side of the turbine buildings (sea side)

○ Analysis results [Unit for radioactive material density: Bq/L]

ND indicates a case where the result is below the detection limit value, and the detection limit value is shown in parentheses.

Area	Sampling point	Sampling date	Cs-134	Cs-137	Gross β	H-3	Sr-90	Sampling method			
Unit 3 sea side H25J④	Lower permeable layer (Alternate layer)	Nov. 13, 2013	ND (0.4)	ND (0.5)	ND (12)	ND (120)	0.29	Pumped up from the deep part of the observation hole			
Sea side between Units 3 and 4 H25J⑦	Lower permeable layer (Alternate layer)	Dec. 3, 2013*1	ND (0.4)	0.7	ND (13)	780	1.9	Pumped up from the deep part of the observation hole			
		Dec. 10, 2013*2	2.7	6.7	89	ND (110)	60	Water in the upper part of the observation hole was manually sampled with a water sampler			
			Analysis was conducted after removing particulates, such as dust, causing turbidity			—	—				
		Dec. 18, 2013	3.7	9.0	62	ND (130)	—	A small amount of water was pumped up from the deep part of the observation hole			
		Jan. 9, 2014	Results newly added since the release of Jan. 7			0.98	1.7		ND (14)	ND (110)	—
			ND (0.4)	ND (0.5)	ND (14)	ND (110)	—				
	Jan. 10, 2014	ND (0.4)	ND (0.5)	ND (12)	480	—	Sampled after all of water in the observation hole was replaced with a pump				
Upper permeable layer (Medium-grained sand stone layer)	Nov. 18, 2013	ND (0.4)	1.1	42	ND (130)	Under analysis (Scheduled in January)	Pumped up				

*2: The turbidity level of the water sampled on December 3, 2013 did not meet the minimal required value. The sampling was conducted with that high turbidity level, and radioactive materials were detected.

*3: On December 10, 2013, the sampling was conducted again with a method designed to suppress the turbidity level, but the turbidity did not meet the minimal required level. Then, the water sampled on the same day was filtered and then analyzed again. However, radioactive materials were detected both in the first and second analyses.

