Progress Status of the Groundwater Bypass Construction

The groundwater bypass is being built for the purpose of reducing groundwater inflow into buildings through pumping and bypassing the groundwater flowing from the mountain side in the upstream of buildings. As a result of water guality test on the groundwater pumped up from system A pump well and the water stored in the temporary storage tank, the results were below the detection limit or at sufficiently low levels.



epeeea 23		· ogaladoi								
System Satiopling point (Sampling date) Test item	A system (Analyzed by TEPCO)				A system (Analyzed by a Third Party Organization)				Temporary storage tank	Density limit
	No.1 Jan. 24, 2013	No.2 Feb. 5, 2013	No.3 Dec. 11, 2012	No.4 Feb. 1, 2013	No.1	No.2	No.3	No.4	(Gr-A-1 tank) April 16, 2013	specified by regulation
Cesium-134	0.047	0.021	0.011	0.060	ND (<0.0074)	ND (<0.0087)	ND (<0.01)	0.0015	ND (<0.042)	60
Cesium-137	0.074	0.033	0.012	0.12	ND (<0.0075)	ND (<0.0077)	ND (<0.01)	0.037	ND (<0.059)	90
Strontium- 89	ND (<0.079)	ND (<0.059)	ND (<0.236)	ND (<0.065)	ND (<0.013)	ND (<0.012)	-	ND (<0.012)		300
Strontium- 90	ND (<0.024)	ND (<0.021)	ND (<0.068)	ND (<0.022)	ND (<0.005)	ND (<0.005)	ND (<0.005)	ND (<0.005)		30
Tritium	9	15	10	39	2	3	ND (<3.7)	6	21	60,000
All a	ND (<1.7)	ND (<1.7)	ND (<1.0)	ND (<1.7)	ND (<1.8)	ND (<1.8)	ND (<0.1)	ND (<1.8)	ND (<3.0)	-
All ß	ND (<2.7)	ND (<6.6)	ND (<2.7)	ND (<6.5)	ND (<4)	ND (<4)	ND (<0.2)	ND (<4)	ND (<6.3)	-
									ND: Below the	detection limit

	Water quality test after the operational commencement of the groundwater bypass					
Purpose	Determine the feasibility of water discharge	Monitor density fluctuations through detailed analysis performed on a regular basis				
Frequency	Timing of water discharge (Monitoring to be done beforehand)	About once a month for the time being (may change to once every 3 months depending on the situation)				
Location	Temporary storage tank	Temporary storage tank				
ltem to check	 Whether cesium-137 is 1Bq/L or less (maximum allowed density) Whether all β is below the detection limit (20Bq/L) 	- Whether the density is sufficiently lower than that of the samples collected in the surrounding marine area and rivers (representative nuclide: cesium-137) - Detailed analysis by TEPCO and a third party organization				
Analysis items (Detection limit)	Cesium-137 All β	Cesium-137 Strontium-90 Tritium All α All β				