

Plant Status of Fukushima Daiichi Nuclear Power Station

April 6, 2012
Tokyo Electric Power Company

<1. Status of the Nuclear Reactor and the Primary Containment Vessel> (As of April 6 at 11:00 am)

Unit	Status of water injection		Reactor pressure vessel bottom temp.	Pressure of primary containment vessel ^{*1}	Hydrogen density of primary containment vessel
Unit 1	Injecting Fresh water	Core Spray System: Approx.1.8 m ³ /h	24.6 °C	106.1 kPa abs	A system:0.00 vol% B system:0.00 vol%
		Feed Water System: Approx.4.7 m ³ /h			
Unit 2	Injecting Fresh water	Core Spray System: Approx.6.2 m ³ /h	50.2 °C	26.28 kPa g	A system:0.20 vol% B system:0.19 vol%
		Feed Water System: Approx.2.9 m ³ /h			
Unit 3	Injecting Fresh water	Core Spray System: Approx.5.1 m ³ /h	55.4 °C	0.30 kPa g	A system:0.20 vol% B system:0.19 vol%
		Feed Water System: Approx.1.9 m ³ /h			

*1: absolute pressure (kPa abs) = gauge pressure (kPa g) + atmosphere pressure (normal atmosphere pressure 101.3 kPa).

<2. Status of the Spent Fuel Pool > (As of April 6 at 11:00 am)

Unit	Cooling type	Status of cooling	Temperature of water in Spent Fuel Pool
Unit 1	Circulating Cooling System	Under operation	15.0 °C
Unit 2	Circulating Cooling System	Under operation	15.3 °C
Unit 3	Circulating Cooling System	Under operation	14.9 °C
Unit 4	Circulating Cooling System	Under operation	26°C

[Unit 4] ·4/6 1:34 pm Since the suction pressure of the primary water circulating pump in the alternative cooling system of the spent fuel showed downward trend, we suspended cooling the spent fuel pool in order to conduct flushing the suction side strainer of the pump.

3:29 pm As we finished flushing, we restarted to cool the spent fuel pool. After restarting the cooling, the temperature of the water in the pool is approx. 25 and there are no problems in managing the temperature of the water in the pool.

<3. Status of Water Transfer from the Basement Floor of the Turbine Building etc.>

Unit	Draining water source	Place transferred	Status
Unit 2	Unit 2 T/B	Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	3/20 10:14 am - 4/6 9:43 am Transferred
		Central Radioactive Waste Treatment Facility [Process Main Building]	4/6 10:08 am ~ Transferring
Unit 3	Unit 3 T/B	Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)]	4/3 10:08 am – 4/5 2:54 pm Transferred

<4. Status of the Treatment Facility and the Storage Facility > (As of April 6 at 7:00 am)

Facility	Cesium adsorption apparatus	Secondary Cesium adsorption apparatus (SARRY)	Decontamination instruments	Water desalinations (reverse osmosis membrane)	Water desalinations (evaporative concentration)

Operating status	Operation	Shutdown *	Shutdown	Operating intermittently according to the water balance	Operating intermittently according to the water balance
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* Cleaning of filter is in progress.

- From June 8, 2011: Large tanks to store contaminated and decontaminated water are transported and installed.
- Around 1:05 am on April 5, 2012: Because the amount of flow which transfer condensed water from the water desalinator (reverse osmosis membrane) to the condensed water storage tank increased, we stopped the operation of the desalinator manually at around 1:10 am considering the possibility of water leakage. In order to prevent water leakage, at around 1:45 am, we closed the valve located before and after the piping (pressure-proof hose) which transfer condensed water from the water desalinator to the condensed water storage tank. TEPCO's employer checked the site and found water leakage from the piping at around 1:50 am. Since the desalinator was stopped its operation and the valve was closed, the employer confirmed that the leakage stopped at around 2:20 am. Because it was confirmed that water leaked from the lagging material of the pressure-proof hose, the employer removed the material, confirming that the pressure-proof horse had been disconnected from the joint flange. Because there was possibility that condensed water amounting to approximately 12 m3 might have flown into sea via the ditch for general water discharge, we conducted sampling of the leaked water, water at the drainage ditch, and seawater around the exit of the ditch for general water discharge which locates around 300 m south from the water outlet of Unit 1 – 4. As a result, while gamma nuclide and all beta-radioactivity were detected from the leaked water and water at the ditch, the result was below the detection limit for the seawater around the exit of the ditch, we confirmed. We also confirmed based on the result of the sampling offshore and in the site and so forth that gamma nuclides and all beta-radioactivity were all below the detection limitation. Although the operation of the water desalinator (reverse osmosis membrane type and evaporative concentration apparatus type) was suspended, there is no significant influence to the water injection into the reactor because there are affluent amount of water which has been already desalinated.
- At 1:05 am on April 5, 2012: 2nd Cesium adsorption apparatus automatically stopped its operation triggered with an alarm. After checking the site, we confirmed there was no leakage. The cause of the stop is that an operator mistakenly touched the "button for switching modes" on the operation panel (touch panel) of the apparatus.

<5. Others>

- October 7, 2011~: Continuously implementing water spray using water after purifying accumulated water of Unit 5 and Unit 6 to prevent spontaneous fire of trimmed trees and diffusion of dust.
- February 23, 2012~: Test of drawing water in the Unit 6 sub drain to the temporary tank through the temporarily storage tank was implemented.
- March 6, 2012~: Test of drawing water in the Unit 5 sub drain to the temporary tank through the temporarily storage tank was implemented.
- March 14, 2012~: In order to prevent the diffusion of ocean soil, we started the full-scale covering work of seafloor by solidification soil (covering material).
- April 5, 2012: Dust sampling was implemented with the large crane at the upper part of Unit 3's reactor building. Sampling for charcoal filters and particle filters in the gas management system of Primary Containment Vessel of Unit 3 was also implemented.

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