

Plant Status of Fukushima Daiichi Nuclear Power Station

February 16, 2012
Tokyo Electric Power Company

<1. Status of the Nuclear Reactor and the Primary containment vessel> (As of February 16 at 11:00)

Unit	Status of Water injection		Bottom temperature of Reactor pressure vessel	Pressure of primary containment vessel	Hydrogen density Of Primary containment vessel
Unit 1	Injecting Fresh water	Core Spray System: Approx. 1.8 m ³ /h	24.6 °C	106.5 kPaabs	0.01 vol%
		Feed Water System: Approx. 4.3 m ³ /h			
Unit 2	Injecting Fresh water	Core Spray System: Approx.10.0 m ³ /h	9.0 °C*	113kPaabs	0.07 vol%
		Feed Water System: Approx. 7.6 m ³ /h			
Unit 3	Injecting Fresh water	Core Spray System: Approx. 6.0 m ³ /h	48.7 °C	101.6 kPaabs	
		Feed Water System: Approx. 2.9 m ³ /h			

* We evaluated that the thermocouple is out of order.

【Unit 2】

- Because the tendency of temperature rise at the bottom of the PCV had been accelerated since February 2, we have increased the amount of water injection to the reactor and monitor the tendency of the temperature fluctuation continuously. From 2:02 pm to 2:54 pm on February 13, we inspected the thermocouple which measures the bottom temperature of the Reactor Pressure Vessel of Unit 2. As the result, we evaluated that the thermocouple has been out of order due to disconnection, because the DC resistance was higher than normal level. The temperature after the inspection was 342.2°C(reference figure). After the inspection of the soundness of thermocouple, we evaluated that it has been out of order.
- On February 15, sampling for the air of Unit 2 PCV gas control system was conducted. As a result of the analysis, it was confirmed that xenon 135 at the entrance of the system was below the detection limit (1.0×10⁻¹Bq/cm³) and recriticality criteria 1 Bq/cm³. Thus, recriticality was not confirmed.

【Unit 4】【Unit 5】【Unit 6】

- No significant incidents have happened.

<2. Status of the Spent Fuel Pool> (As of February 16 at 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Spent Fuel Pool
<u>Unit 1</u>	Circulating Cooling System	Under operation*	24.5 °C
<u>Unit 2</u>	Circulating Cooling System	Under operation	13.4 °C
<u>Unit 3</u>	Circulating Cooling System	Under operation	18.4 °C
<u>Unit 4</u>	Circulating Cooling System	Under operation	26 °C

* System secondary air fin cooler: out of service

【Unit 2】

- A desalination equipment has been activated in order to reduce density of salt from the spent fuel pool since 11:50 on January 19.

【Unit 3】

- A radioactive material removal equipment has been activated in order to remove radioactive materials from the spent fuel pool since 3:18 pm on January 14.

<3. Status of water transfer from the Vertical Shaft of the Trench and the basement floor of the Turbine Building>

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)]	14:43 on February 10 - Transferring
Unit 3	Unit 3 T/B →	Central Radioactive Waste Treatment Facility [Process Main Building]	From 9:57 on February 12 to 9:50 on February 16- Transferred

<4. Status of the Treatment Facility and the Storage Facility> (As of February 16 at 7:00)

Facility	Cesium adsorption apparatus	Secondary Cesium adsorption apparatus (sarry)	Decontamination instruments	water desalinations (reverse osmosis membrane)	water desalinations (evaporative concentration)
Operating status	Under operation	Under operation*	Out of service	Operating intermittently according to the water balance	Operating intermittently according to the water balance

*Cleaning of filter is implemented accordingly.

- June 8, 2011～ Large tanks to store contaminated and decontaminated water are transported and installed.

<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.
- January 11, 2012～: As finding accumulated water including radioactive materials (December 18, 2011) at the trench between Process Main Building of Central Radioactive Waste Treatment Facility and Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building), we started inspection of the other trenches in the site. *Please refer to the other reference materials for the result of daily inspection.
- February 14, due to the inspection of strainer changeover valve of auxiliary cooling seawater system pump of Unit 6, at 10:02 we stopped cooling the spent fuel pool by the spent fuel pool cooling system(B). At 10:06, we also stopped the auxiliary cooling seawater system pump(A) (The temperature at the shutdown period was around 23°C). During the work, we implemented alternant cooling of the reactor and the spent fuel pool by the residual heat removal system (RHR)(until around February 17), because the spent fuel pool cooling system stopped. We estimated that the water temperature during the work would be a maximum of 37°C at the reactor and 31°C at the spent fuel pool. We estimated that the temperature was tolerance level.
- At around 8:30 pm on February 15, we detected radiation from a face of a worker of co-operating company who was collecting and delivering debris at around the Unit 3 and the Solid Waste Storage Facility No1 and 2 by the contamination test at J-Village. After the decontamination of the face, we conducted the contamination test again by whole body counter. As a result, no radioactive materials was taken in(below 2mSv). We evaluated that the radiation was attached when he removed the equipment,

- From 10:02 am to 2:06 pm on February 16, we stopped cooling the common pool due to the recovery work for the common diesel generator(A)(The temperature of the pool:18.2°C at stop, 19.0°Cat restart).

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