

# Plant Status of Fukushima Daiichi Nuclear Power Station

June 1, 2012

Tokyo Electric Power Company

## <1. Status of the Nuclear Reactor and the Primary Containment Vessel> (As of June 1 at 11:00 AM)

Unit	Status of Water Injection		Bottom Temperature of Reactor Pressure Vessel	Pressure of Primary Containment Vessel* <sup>1</sup>	Hydrogen Density of Primary Containment Vessel
Unit 1	Injecting Fresh Water	Core Spray System: Approx. 1.9 m <sup>3</sup> /h	31.6 °C	107.1 kPa abs	A system:0.00 vol% B system:0.00 vol%
		Feed Water System: Approx. 3.4 m <sup>3</sup> /h			
Unit 2	Injecting Fresh Water	Core Spray System: Approx. 6.0 m <sup>3</sup> /h	46.3 °C	14.27 kPa g	A system:0.22 vol% B system:0.22 vol%
		Feed Water System: Approx. 2.9 m <sup>3</sup> /h			
Unit 3	Injecting Fresh Water	Core Spray System: Approx. 5.0 m <sup>3</sup> /h	57.1 °C	0.26 kPa g	A system:0.13 vol% B system:0.13 vol%
		Feed Water System: Approx. 2.9 m <sup>3</sup> /h			

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

[Unit 1] - June 1: Sampling was conducted at the charcoal filter and the particulate filter of PCV gas control system.

[Unit 5] - May 29 10:33 AM: As to the exhaust inside the Unit 5 Primary Containment Vessel (PCV) which had been conducted by opening the equipment hatch before, in order to do it directly from PCV, we started up PCV fan which had been stopped after the earthquake. Until 10:50 AM on May 30, PCV fan continued operating for a short period of time.

June 1 10:30 AM: Upon our analysis of  $\gamma$  nuclides measurement result at the main exhaust stack, it was confirmed that the fan operation did not negatively affect the detection level, and the fan was restarted for a continuous run.

## <2. Status of the Spent Fuel Pool > (As of June 1 at 11:00 AM)

Unit	Cooling Type	Status of Cooling	Temperature of Water in Spent Fuel Pool
Unit 1	Circulating Cooling System	Under operation	22.0 °C
Unit 2	Circulating Cooling System	Under operation	23.0 °C
Unit 3	Circulating Cooling System	Under operation	22.2 °C
Unit 4	Circulating Cooling System	Under operation	33.6 °C

\* The above values are taken from the temporary thermometer at the spent fuel pool (reference values), as Unit 4 spent fuel pool alternative cooling system is currently suspended.

[Unit 4] - June 1 8:56 AM: Spent fuel pool primary cooling system was temporarily suspended in order to replace the pump suction strainer (pool water temperature at the time it was stopped: approx. 31 °C). The system will be suspended until June 3, however there is no problem with pool water temperature control as the temperature increase rate is estimated to be approx. 0.3 °C/h.

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

Unit	Draining Water Source	Place Transferred	Status
Unit 1	Unit 1 T/B	Unit 2 Turbine Building	6/1 2:22 PM – Being transferred
Unit 2	Unit 2 T/B	Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	5/27 2:34 PM – Being transferred
Unit 3	Unit 3 T/B	Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	5/19 9:15 AM – 6/1 9:58 AM Transferred
Unit 6	Unit 6 T/B	Temporary Tank	6/1 10:00 AM - 4:00 PM Transferred

**<4. Status of the Treatment Facility and the Storage Facility > (As of June 1 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	Shutdown	Operation *	Shutdown	Operating intermittently according to the water balance	Operating intermittently according to the water balance

\* Cleaning of filter is in progress.

- 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.
- 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 25, 2012 - : For the purpose of preventing further contamination to the ocean through grounder water, we started a full-scale construction of water shielding wall.
- At around 12:30 PM on May 29: data reading was failing on the Main Anti-Earthquake Building monitoring panel of the portable monitoring post at the west entrance. The same issue was occurring on the Main Anti-Earthquake Building monitoring panel of the wireless monitoring post used for alternative monitoring. The data from 12:30 PM to 7:30 PM was acquired by the alternative measurement done by a worker at the site. At 7:39 PM on the same day, the wireless monitoring system was recovered after resetting the equipment which transmits from the receiver to the terminal. As the data after 8:00 PM was acquired by the recovered wireless monitoring system, there is no data missing due to this issue.  
In the morning of May 31, the transmission cable of the monitoring post was repaired as it was disconnected. Also, the transmission cable connector was removed since its terminal was corroded. At around 1:00 PM on the same day, the monitoring post was recovered after directly connecting the cable (with its connector removed) and resetting the receiving terminal panel. At 6:00 PM on the same day, data acquisition utilizing the portable MP was restarted as no problem was found with it.
- June 1: Dust sampling was conducted at the upper part of Unit 1 reactor building at the emission filter of Unit 1 reactor building cover.
- At around 2:20 PM, a bulldozer operator (of our affiliate company) found that oil was leaking from the hydraulic unit of the bulldozer which was being used for the impermeable wall construction near the south breakwater entrance. The leaked oil is assumed to be used for controlling oil pressure and the affected area was 2m x 5m (ground). The oil leak has stopped and the oil did not flow into the ocean as the leakage was treated by utilizing absorption mattress and neutralizer. At around 3:30 PM on the same day, we reported this matter to Futaba Fire Fighting Head Office. At 4:59 PM on the same day, the Fire Fighting Head Office has informed us that the leakage was not of danger. The cause of this oil leakage will be investigated.

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