

# Plant Status of Fukushima Daiichi Nuclear Power Station

May 31 2012

Tokyo Electric Power Company

## <1. Status of the Nuclear Reactor and the Primary Containment Vessel> (As of May 31 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	31.4 °C	107.4 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. 6.1 m <sup>3</sup> /h	46.2 °C	13.77 kPa g	A system:0.23 vol% B system:0.23 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	57.4 °C	0.26 kPa g	A system:0.15 vol% B system:0.14 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] - May 30: Xenon 135 confirmed on the noble gas monitor of PCV gas control system was  $1.8 - 2.5 \times 10^{-3} \text{Bq/cm}^3$ , which is below the re-criticality criteria ( $1 \text{Bq/cm}^3$ ).

[Unit 2] - May 30: Sampling was done at PCV gas control system. As a result, xenon 135 detected at the entrance of the system was below the detection limit ( $1.0 \times 10^{-1} \text{Bq/cm}^3$ ) and the re-criticality criteria ( $1 \text{Bq/cm}^3$ ). Xenon 135 confirmed on the noble gas monitor was also below the detection limit ( $2.3 - 2.4 \times 10^{-1} \text{Bq/cm}^3$ ) and the re-criticality criteria ( $1 \text{Bq/cm}^3$ ).

[Unit 3] - May 30: Xenon 135 confirmed on the noble gas monitor of PCV gas control system was below the detection limit ( $3.4 \times 10^{-1} \text{Bq/cm}^3$ ) and also below the re-criticality criteria ( $1 \text{Bq/cm}^3$ ).

## <2. Status of the Spent Fuel Pool > (As of May 31 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	23.2 °C
Unit 3	Circulating Cooling System	Under operation	22.3 °C
Unit 4	Circulating Cooling System	Under operation	32 °C

[Unit 4] - May 31 1:41 PM – 3:17 PM: Hydrazine was injected to the spent fuel 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)]	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 – Being transferred

## <4. Status of the Treatment Facility and the Storage Facility > (As of May 31 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.

END