

# Plant Status of Fukushima Daiichi Nuclear Power Station

April 20, 2012

Tokyo Electric Power Company

## <1. Status of the Nuclear Reactor and the Primary Containment Vessel> (As of April 20 at 11:00 am)

Unit	Status of water injection		Reactor pressure vessel bottom temp.	Pressure of primary containment vessel <sup>*1</sup>	Hydrogen density of primary containment vessel
Unit 1	Injecting Fresh water	Core Spray System: Approx.1.7 m <sup>3</sup> /h	27.3 °C	108.2 kPa abs	A system:0.00 vol% B system:0.01vol%
		Feed Water System: Approx.4.8 m <sup>3</sup> /h			
Unit 2	Injecting Fresh water	Core Spray System: Approx.5.9 m <sup>3</sup> /h	46.1 °C	31.64 kPa g	A system:0.22 vol% B system:0.22 vol%
		Feed Water System: Approx.3.0 m <sup>3</sup> /h			
Unit 3	Injecting Fresh water	Core Spray System: Approx.5.1 m <sup>3</sup> /h	56.3 °C	0.29 kPa g	A system:0.21vol% B system:0.19 vol%
		Feed Water System: Approx.1.8 m <sup>3</sup> /h			

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

[Unit 2] April 20 At 9:32 am, because the decrease of the volume of injected water to the reactor, we adjusted the injected water volume from Core Spray System from approx. 2.6 m<sup>3</sup>/h to approx. 3.0 m<sup>3</sup>/h (we have kept the injected water volume from reactor feed water system at approx. 6.0 m<sup>3</sup>/h).

## <2. Status of the Spent Fuel Pool > (As of April 20 at 11:00 am)

Unit	Cooling type	Status of cooling	Temperature of water in Spent Fuel Pool
Unit 1	Circulating Cooling System	Under operation	17.0 °C
Unit 2	Circulating Cooling System	Under operation	18.6 °C
Unit 3	Circulating Cooling System	Under operation	18.0 °C
Unit 4	Circulating Cooling System	Under operation	26°C

## <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)]	4/14 15:27 - Being transferred
Unit 3	Unit 3 T/B	Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	4/20 9:33 - Being transferred

## <4. Status of the Treatment Facility and the Storage Facility > (As of April 20 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	Operation *	Shutdown	Operating intermittently according to the water balance	Operating intermittently according to the water balance

\* Cleaning of filter is in progress.

- From 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 18, 2012~: Works for blocking of the discharge valve pit of Unit 2 circulating water pump and the Unit 2 power source cable trench were started.

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