

# Plant Status of Fukushima Daiichi Nuclear Power Station

April 28, 2012

Tokyo Electric Power Company

## <1. Status of the Nuclear Reactor and the Primary Containment Vessel> (As of April 28 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.2.0 m <sup>3</sup> /h	28.5 °C	107.4 kPa abs	A system:0.00 vol% B system:0.00vol%
		Feed Water System: Approx.4.4 m <sup>3</sup> /h			
Unit 2	Injecting Fresh water	Core Spray System: Approx.5.8 m <sup>3</sup> /h	46.8 °C	18.92 kPa g	A system:0.43 vol% B system:0.43 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	57.7 °C	0.28 kPa g	A system:0.19 vol% B system:0.14 vol%
		Feed Water System: Approx.2.0 m <sup>3</sup> /h			

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

[Unit 3] April 28, 10:15 : Because the changes of the volume of injected water to the reactor, we adjusted the injected water volume from reactor feed water system from approx. 1.6 m<sup>3</sup>/h to approx. 2.0 m<sup>3</sup>/h.

## <2. Status of the Spent Fuel Pool > (As of April 28 at 11:00 am)

Unit	Cooling type	Status of cooling	Temperature of water in Spent Fuel Pool
Unit 1	Circulating Cooling System	Under operation	19.0 °C
Unit 2	Circulating Cooling System	Under operation	21.3 °C
Unit 3	Circulating Cooling System	Under operation	20.0 °C
Unit 4	Circulating Cooling System	Under operation	28 °C

## <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	4/27 2:49 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)]	4/14 3:27 pm – Being transferred

· April 28, 7:24 – 13:17: We transferred the accumulated water from the On-site Bunker Building to the Process Main Building, in the Central Radioactive Waste Treatment Facility

## <4. Status of the Treatment Facility and the Storage Facility > (As of April 28 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.

- From June 8, 2011: Large tanks to store contaminated and decontaminated water are transported and installed.
- At 9:17 am on April 27, a worker of partner company found water leakage at water desalinations (RO) No2(When it was found, we estimated that the leaked water is 18 liters in total. ) At 9:30 of the same day, we stopped the device. To prevent the leaked water to drop on the floor, we cured entry side of water joint of piping of the device, where the leakage occurred, with

plastic bag. Then, we closed valves near leaked point, and confirmed no further leakage at 10:19 am of the same day. The amount of leaked water in total is 36 liters and all of them is pooled at the device, and so there is no leakage out side of the building. The radiation dose of dropped water is 7mSv/h, is about 1mSv/h. The sampling result of leaked water is I-131: Below Limit of Detection, Cs-134:  $1.5 \times 100 \text{Bq/cm}^3$ . Cs-137:  $2.1 \times 100 \text{Bq/cm}^3$ , All :  $4.9 \times 10^1 \text{Bq/cm}^3$ , All :  $5.4 \times 10^4 \text{Bq/cm}^3$ . As there are enough treated water, and also other water desalinations are in operation, there is no influence for injecting water to reactors.

#### **<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.
- 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.

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