

## Plant Status of Fukushima Daiichi Nuclear Power Station

March 1, 2012  
Tokyo Electric Power Company

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

Unit	Status of Water injection		Reactor pressure vessel Bottom temp.	Pressure of primary containment vessel	Hydrogen density of Primary containment vessel
Unit 1	Injecting Fresh water	Core Spray System: Approx.1.8 m <sup>3</sup> /h	23.7	107.0 kPaabs	0.00 vol%
		Feed Water System: Approx.4.5 m <sup>3</sup> /h			
Unit 2	Injecting Fresh water	Core Spray System: Approx.5.9 m <sup>3</sup> /h	44.8	118 kPaabs	0.06 vol%
		Feed Water System: Approx.2.9 m <sup>3</sup> /h			
Unit 3	Injecting Fresh water	Core Spray System: Approx.5.1 m <sup>3</sup> /h	52.8	101.6 kPaabs	/
		Feed Water System: Approx.1.7 m <sup>3</sup> /h			

#### [Unit 2]

- From 12:21 pm to 2:48 pm on February 23, with regard to the volume of injected water to reactor, which was increased with rise of indicated figure of temperature, we have gradually adjusted it to the original volume before temperature rise (feed water system: approx. 3.0m<sup>3</sup>/h, core spray system: approx. 6.0m<sup>3</sup>/h). During our observing the plant parameter after decreasing the flow rate of feed water system on February 22, since we found that one thermometer in the lower part of the RPV (top of the lower head 135 ° ) indicated the different movement from others, we investigated the concerned device.

As the result of the measurement of DC resistance, we found no disconnection. It can be enabled, however, we confirmed that the DC resistance was higher than the previous measurement test data. We will evaluate the soundness of the device and will examine correspondence. We think it is not re-criticality state because there were no significant changes in the monitoring post data and, as the result of the sampling for the Gas Control System of the Unit 2, the concentration of Xe-135 was lower than the detectible limit.

At 11:00 am on March 1, the temperature of the lower part of the RPV (top of the lower head 135 ° ) was approx. 44.8 .

- On February 29, gas sampling was conducted for the Gas Control System of the Unit 2. As the result of the analysis, we confirmed that it is not re-criticality state because the concentration of Xe-135 at the entrance of the system was below the detection limit (1.0 x 10<sup>-1</sup>Bq/cm<sup>3</sup>), and below the threshold of re-critical condition of 1 Bq/cm<sup>3</sup>.

#### [Unit 3]

- As installation works of the PCV gas control system was completed, at 11:38 am on February 23 we started the test operation, at 2:10 pm we confirmed that an exhaust flow amount was stable at 33m<sup>3</sup>/h and started adjustment operation.

[Unit 4] [Unit 5] [Unit 6] ·No major change

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

Unit	Cooling type	Status of cooling	Temperature of water in Spent Fuel Pool
Unit 1	Circulating Cooling System	Under operation *	25.5
Unit 2	Circulating Cooling System	Under operation	12.8
Unit 3	Circulating Cooling System	Under operation	12.8
Unit 4	Circulating Cooling System	Under operation	23

\* System secondary air fin cooler: out of service

[Unit 2]

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

[Unit 3]

- 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.
- At 1:35 pm on March 1, operation of radioactive material removal equipment was stopped with the completion of purification work.

<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 [ Process Main Building ]	14:00 on February 28 – Transferring
Unit 3	Unit 3 T/B	Central Radioactive Waste Treatment Facility [ Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building) ]	13:56 on February 28 – Transferring
Unit 6	Unit 6 T/B	Temporary tanks	10:00-16:00 on March 1 Transferred

[Unit 3]

- From 8:26 am to 3:18 pm on March 1, according to the investigation on trenches on January 19, 2012, high density contaminated water inside was found inside circulating water pump discharge valve pit of Unit 3 water pump room. Therefore, we started to transfer the accumulated water from the pit to the basement of Unit 2 Turbine Building.

<4. Status of the Treatment Facility and the Storage Facility> (As of March 1 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.
- At 8:45 am on March 1, 2012, in order to conduct the work to improve the reliability of water treatment facilities, we stopped the cesium adsorption apparatus. It will be out of service until March 15. We are planning to stop water treatment facilities one after another. We calculated the estimated water level increase at each building due to the stop o the facilities, and confirmed that the water levels in each building will be maintained within the limits. Since we have sufficient volume of treated water, there will be no impact on the water injection to the 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 1: Sampling of the dust was conducted at the above of Unit 1 Reactor Building using the exhaust gas filtering facilities of the Unit 1 Reactor cover.
- March 1: Sampling was conducted at the charcoal filter of Unit 3 RCV gas control system.
- March 1: Sampling of the dust was conducted at the above of Unit 3 Reactor Building and at the opening of the hatch for equipments at Unit 3 Reactor Building.

End