

Plant Status of Fukushima Daiichi Nuclear Power Station

March 16, 2012
Tokyo Electric Power Company

<1. Status of the Nuclear Reactor and the Primary Containment Vessel> (As of March 16 at 11:00 am)

Unit	Status of Water injection		Bottom temp. of Reactor pressure vessel	Pressure of primary containment vessel*	Hydrogen density of Primary containment vessel
Unit 1	Injecting Fresh water	Core Spray System: Approx.1.7 m ³ /h	23.4 °C	107.5 kPaabs	A system: 0.00 vol% B system: 0.01 vol%
		Feed Water System: Approx.4.7 m ³ /h			
Unit 2	Injecting Fresh water	Core Spray System: Approx.6.0 m ³ /h	40.9 °C	17.90 kPag	A system: 0.11 vol% B system: 0.11 vol%
		Feed Water System: Approx.2.7 m ³ /h			
Unit 3	Injecting Fresh water	Core Spray System: Approx.5.4 m ³ /h	52.7 °C	0.31 kPag	A system: 0.19 vol% B system: 0.19 vol%*
		Feed Water System: Approx.1.7 m ³ /h			

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

【Unit 1】【Unit 2】【Unit 3】

【Unit 4】【Unit 5】【Unit 6】・No major change

<2. Status of the Spent Fuel Pool> (As of March 16 at 11:00 am)

Unit	Cooling type	Status of cooling	Temperature of water in Spent Fuel Pool
Unit 1	Circulating Cooling System	Under operation*	27.0 °C
Unit 2	Circulating Cooling System	Out of service	24.9 °C
Unit 3	Circulating Cooling System	Under operation	13.6 °C
Unit 4	Circulating Cooling System	Under operation	26 °C

* 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.
- At 10:31 am on March 13, because the suction pressure of the primary system Circulating Water Pump had a tendency to decrease in the substitute cooling system of spent fuel pool, we stopped the cooling of spent fuel pool in order to change the primary system Strainer to manual cleaning system and conduct the check of valves etc. until March 16. The temperature rise on this period is expected approx. 21 °C. (Temperature of water in spent fuel pool when we stopped: approx. 14.1 °C)
- At 1:12 pm on March 16 as the work was completed, we resumed the cooling process (temperature of the pool at this point was 24.9°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)]	From 8:47am on March 11: Transferring
Unit 3	Unit 3 T/B →	Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	From 8:46am on March 15: Transferring
Unit 6	Unit 6 T/B →	Temporary tank	From 10:00 am to 4:00 pm on March 16: Transferred

<4. Status of the Treatment Facility and the Storage Facility> (As of March 16 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	In service	In service	Out of service	Operating intermittently according to the water balance	Operating intermittently according to the water balance

- from June 8, 2011 Large tanks to store contaminated and decontaminated water are transported and installed.
- Due to the commencement of the operation of south switching station, it was necessary to switch the power receiving of the power plant. Thus at 10:01 am of March 16 we suspended the first Cesium adsorption apparatus and at 10:02 am of March 16 we suspended the second Cesium adsorption apparatus. After the switching works were completed, at 2:32 pm on the same day, we activated the second Cesium adsorption apparatus, and at 2:36 pm it reached the rated flow (42.6m³/h). At 2:55 pm we activated the first Cesium adsorption apparatus, and at 2:58 pm it reached the rated flow (19.8m³/h).

<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~: we have been conducting the transfer test of sub-drain Water of Unit 5 to the temporary tank via the interim storage tank.
- 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).

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