# Plant Status of Fukushima Daiichi Nuclear Power Station

February 22, 2012
Tokyo Electric Power Company

<1. Status of the Nuclear Reactor and the Primary Containment Vessel> (As of February 22 at 11:00 am)

| Unit | Status of Water injection | | Bottom temperature of Reactor pressure vessel | Pressure of primary containment vessel | Hydrogen density Of Primary containment vessel |
|---|---|---|---|---|---|
| Unit 1 | Injecting Fresh water | Core Spray System: Approx. 1.8 $m^3$/h | 24.2 °C | 107.6k Paabs | 0.00 vol% |
| | | Feed Water System: Approx. 4.6 $m^3$/h | | | |
| Unit 2 | Injecting Fresh water | Core Spray System: Approx.6.0 $m^3$/h | 36.3 °C | 114k Paabs | 0.08 vol% |
| | | Feed Water System: Approx. 4.0 $m^3$/h | | | |
| Unit 3 | Injecting Fresh water | Core Spray System: Approx. 5.1 $m^3$/h | 50.9 °C | 101.6k Paabs | |
| | | Feed Water System: Approx. 1.8 $m^3$/h | | | |

【Unit 2】

・ With regard to the water injection volume for Unit 2 reactor, which was increased with temperature figure raising, we have gradually adjusted it to the original volume before temperature increasing (Feed water system: approx. 3.0m³/h, core spray system: approx. 6.0m³/h) As no abnormality has been observed in the variation of the plant parameter after the change in the flow rate on February 20, at 7:44 pm on February 21, we changed the water injection volume from feed water system from approx.5.5m³/h to approx. 4.0m³/h (The water injection level from core spray system is continuing at approx. 6.0m³/h)

【Unit 4】【Unit 5】【Unit 6】

・ No significant incidents have happened.

<2. Status of the Spent Fuel Pool> (As of February 22 at 11:00 am)

| Unit | Cooling type | Status of cooling | Temperature of water in Spent Fuel Pool |
|---|---|---|---|
| Unit 1 | Circulating Cooling System | Under operation* | 26.0 °C |
| Unit 2 | Circulating Cooling System | Under operation | 13.1 °C |
| Unit 3 | Circulating Cooling System | Under operation | 13.5 °C |
| Unit 4 | Circulating Cooling System | Under operation | 25 °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.

【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.

<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 [Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)] | 9:39 am on February 20 – Transferring |
| Unit 3 | Unit 3 T/B | → | Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)] | 9:30 am on February 20 - Transferring |

- From 9:43 am – 3:58 pm on February 22, we transferred the accumulated water from circulating water pump discharge valve pit of Unit 2 to the basement of Unit 2 Turbine Building.

<4. Status of the Treatment Facility and the Storage Facility> (As of February 22 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 | 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.

<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 20, 2012 : At around 3:43pm, we observed that an error message was displayed in the screen of the noble gas monitoring system B of the gas management system of the primary containment vessel of Unit 2. Accordingly, the density of the noble gas in the system B was no longer observable at the Central Monitoring Station in the Main Anti-Earthquake Building. Observation was continued using the system A, one of the two systems A and B, which did not display any error message.
- February 21, 2012 : at around 5:20pm, the same error message was displayed in the screen of system A. As a result, the density of the noble gas was no longer observable at Central Monitoring Station in the Main Anti-Earthquake Building. After investigating the situation at the site, we detected a failure of the transmission system which connects the site and the Central Monitoring Station in the Main Anti-Earthquake Building. However, there is no difficulty in confirming the subcriticality, as both the system A and B can be observed from the monitor at the site and, at the moment, the monitor screen can be remotely watched from the Central Monitoring Station in the Main Anti-Earthquake Building. The cause of the failure is now being investigated for restoration. The gas management system of the primary containment vessel of Unit 2 itself is in normal operation.
- February 22, 2012 : 10:05 As the component cooling sea water system pump (C) of Unit 6 had been restored, we started test operation.

10:07 Accordingly, the component cooling sea water system pump (A) stopped its operation.

End