

Plant Status of Fukushima Daiichi Nuclear Power Station

February 15, 2012
Tokyo Electric Power Company

<1. Status of the Nuclear Reactor and the Primary containment vessel> (As of February 15 at 11:00)

| 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 | 24.6 | 105.7 kPaabs | 0.01 vol% |
| | | Feed Water System: Approx. 4.3 m ³ /h | | | |
| Unit 2 | Injecting Fresh water | Core Spray System: Approx. 9.9 m ³ /h | 225.1 * | 113kPaabs | 0.08 vol% |
| | | Feed Water System: Approx. 7.6 m ³ /h | | | |
| Unit 3 | Injecting Fresh water | Core Spray System: Approx. 6.0 m ³ /h | 48.8 | 101.6 kPaabs | / |
| | | Feed Water System: Approx. 2.9 m ³ /h | | | |

* The soundness of thermocouple is now being checked.

[Unit 2]

- Because the tendency of temperature rise at the bottom of PCV had been accelerated since February 2, the amount of water injection to the reactor was increased and monitoring of tendency of the temperature fluctuation is continuously implemented.
- On February 14, sampling for the air of Unit 2 PCV gas control system was conducted. As a result of the analysis, it was confirmed that xenon 135 at the entrance of the system was below the detection limit (1.0×10⁻¹Bq/cm³) and recriticality criteria 1 Bq/cm³. Thus, recriticality was not confirmed.
- On February 13, sampling was conducted for charcoal filter of PCV gas control system.

[Unit 4] [Unit 5] [Unit 6]

- No significant incidents have happened.

<2. Status of the Spent Fuel Pool> (As of February 15 at 11:00)

| Unit | Cooling type | Status of cooling | Temperature of water in Spent Fuel Pool |
|---------------|----------------------------|-------------------|---|
| <u>Unit 1</u> | Circulating Cooling System | Under operation* | 24.5 |
| <u>Unit 2</u> | Circulating Cooling System | Under operation | 13.4 |
| <u>Unit 3</u> | Circulating Cooling System | Under operation | 21.0 |
| <u>Unit 4</u> | Circulating Cooling System | Under operation | 25 |

* System secondary air fin cooler: out of service

[Unit 2]

- A desalination equipment has been activated in order to reduce density of salt from the spent fuel pool since 11:50 on January 19.
- From 13:29 to 15:07 on February 13, we injected approx. 2 m³ of hydrazine (a corrosive) to the spent fuel pool of Unit 2 through the circulating cooling system.

[Unit 3]

- A 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.

- From 10:07 am on February 8 to 10:08 am on February 13, we stopped the operation of the secondary cooling tower in order to prevent overcooling of alternative cooling system of spent fuel pool.

[Unit 6]

- In order to conduct inspection of the strainer changeover valve of the pump of the reactor sea water system from February 14 to February 17, at 10:02 am on February 14, we stopped cooling of the spent fuel pool by the spent fuel pool cooling system (B) and at 10:06 am on the same day, we stopped the pump of the reactor sea water system (A) (spent fuel pool water temperature during the stoppage: approx. 23). Because the spent fuel pool cooling system isn't in operation during the inspection, we conduct alternating cooling of the reactor and the spent fuel pool by the residual heat removal system. The water temperature in the reactor and the spent fuel pool are expected to rise up to 37 and 31 respectively during the inspection, but in terms of the temperature raise, we estimate that it is not a problem

<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)] | 14:43 on February 10 - Transferring |
| Unit 3 | Unit 3 T/B | Central Radioactive Waste Treatment Facility [Process Main Building] | 9:57 on February 12 - Transferring |
| Unit 6 | Unit 6 T/B | Temporary tanks | 10:00 - 16:00 on February 15 - Transferred |

<4 . Status of the Treatment Facility and the Storage Facility> (As of February 15 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.

<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.
- January 11, 2012 ~ : As finding accumulated water including radioactive materials (December 18, 2011) at the trench between Process Main Building of Central Radioactive Waste Treatment Facility and Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building), we started inspection of the other trenches in the site. *Please refer to the other reference materials for the result of daily inspection.
- February 13, from 11:45 am to 1:45 pm We implemented dust sampling at the openings (blowout panel) of the reactor building of unit 2