

## Plant Status of Fukushima Daiichi Nuclear Power Station

June 5, 2011

Tokyo Electric Power Company

### <Draining Water on Underground Floor of Turbine Building (T/B)>

| Unit   | Draining water source → place transferred  | Status  |
|--------|--|---|
| Unit 2 | Unit 2 Vertical Shaft of Trench<br>→ Process Main Building of Central Radioactive Waste Treatment Facility (from 10:08 am, April 19 to 4:01 pm, May 26 and from 6:39 pm, June 4) | Increase of water level of Process Main Building:<br>3,965 mm as of 7:00 am, June 5<br>(70 mm increase from 7:00 am, June 4)  |
|        | Unit 2 Vertical Shaft of Trench<br>→ Unit 2 condenser (from 6:39 pm, June 3 to 12:28 pm, June 4)   |   |
| Unit 3 | Unit 3 Turbine Building<br>→ Miscellaneous Solid Waste Volume Reduction Treatment Building of Central Radioactive Waste Treatment Facility (from 6:04 pm, May 17~9:10am, May 25) | Increase of water level of Miscellaneous Solid Waste Volume Reduction Treatment Building:<br>2,929 mm as of 7:00am, June 5<br>(19 mm increase from 7:00 am, June 4) |
|        | Unit 3 condenser → Unit 3 condensate storage tank (from 12:50 pm, June 2 to 9:56 pm, June 4)   |   |
| Unit 6 | Unit 6 Turbine Building<br>→temporary tanks (from May 1 on demand basis, from 2:00 pm, June 2 to 2:00 pm, June 5 and from 2:45 pm, June 5)                                       |   |

### ◇Water level at the vertical shaft of the trench and T/B (As of 7:00 am, June 5)

|        | Vertical Shaft of Trench<br>(from top of grating to surface)              | T/B  |
|--------|---|--|
| Unit 1 | O.P. below +850 mm <measurement unable><br>No change from 7:00 am, June 4 | O.P. +4,920 mm<br>No change from 7:00 am, June 4       |
| Unit 2 | O.P. +3,806 mm (194mm)<br>38 mm decrease since 7:00 am, June 4            | O.P. +3,771 mm<br>41 mm decrease since 7:00 am, June 4 |
| Unit 3 | O.P. +3,824 mm (176 mm)<br>21 mm increase since 7:00 am, June 4           | O.P. +3,813 mm<br>24 mm increase since 7:00 am, June 4 |
| Unit 4 | —   | O.P. +3,798mm<br>26 mm increase since 7:00 am, June 4  |

- Blockage work at the vertical shaft of trench and pit of Unit 2, 3 underway. (work was completed on June 2. Blockage work at the pit underway.)

<Monitoring of Radioactive Materials>

◇ Nuclide Analysis of Seawater (Reference purpose)

Density limit by the announcement of Reactor Regulation:

I-131: 40Bq/L, Cs-134: 60Bq/L, Cs-137: 90Bq/L,

Sampling: Everyday

| Sampling Location (seacoast)  | Date   | Time       | Ratio to Criteria (times) |            |            |
|---|--------|------------|---------------------------|------------|------------|
|   |        |            | Iodine-131                | Cesium-134 | Cesium-137 |
| Approx. 30m north to Discharge Canal of Units 5 & 6 of Fukushima Daiichi          | June 4 | 9:20/14:00 | ND/ND                     | 0.55/1.8   | 0.32/1.3   |
| Approx. 330m south to Discharge Canal of Units 1 to 4 of Fukushima Daiichi        | June 4 | 9:00/13:40 | ND/ND                     | 0.32/1.2   | 0.44/0.40  |
| Around the north Discharge Canal of Fukushima Daini (10km from Fukushima Daiichi) | June 4 | 9:30       | ND                        | ND         | 0.20       |
| Around Iwasawa Seashore, Naraha Town (approx. 16km from Fukushima Daiichi)        | June 4 | 8:05       | ND                        | ND         | 0.22       |

<Water Injection and Spraying to Spent Fuel Pools>

◇ Results on June 4

【Unit 4】From 14:33 to 19:45, we sprayed fresh water and hydrazine by a concrete pumping vehicle (approx. 180t).

Results on June 5

【Unit 1】From 10:16 to 10:48, we sprayed fresh water through FPC (approx. 15t).

【Unit 3】From 13:08 to 15:14, we sprayed fresh water and hydrazine through FPC (approx. 60t).

◇ Others

- From May 31, cooling using the circulating cooling system for Spent Fuel Pool, Unit 2 is underway.  
Spent fuel pool temperature (17:00 May 31) 70°C → (11:00 June 5)32°C

<Water Injection to Reactor Pressure Vessels>

【Unit 1】 Injecting fresh water (reactor feed water system: 5.1 m<sup>3</sup>/h):

At 11:00am, June 5, <Feed-water nozzle> 115.1°C

<Bottom of reactor pressure vessel>98.8°C

【Unit 2】 Injecting fresh water (reactor feed water system:5.0m<sup>3</sup>/h)

At 11:00am, June 5, <Feed-water nozzle> 109.7°C

【Unit 3】 Injecting fresh water (reactor feed water system: 11.5 m<sup>3</sup>/h)

At 11:00am, June 5, <Bottom of reactor pressure vessel> 170.6°C

- At 10:19 am, May 31, we reduced the amount of water injected to the reactor pressure vessel through the feed water system from 13.5 m<sup>3</sup>/h to 12.5 m<sup>3</sup>/h.

- At 10:10 am, June 1, we reduced the amount of water injected to the reactor pressure vessel through

the feed water system from 12.5 m<sup>3</sup>/h to 11.5 m<sup>3</sup>/h.

【Unit 4】【Common spent fuel pool】No particular changes on parameters.

【Units 5】 【Units 6】 Reactor cold shutdown. No particular changes on parameters.

<Injection of Nitrogen Gas to the Primary Containment Vessel of Unit 1 (PCV)>

◇Injection of nitrogen gas

- From 1:31 am, April 7, we started to inject nitrogen gas to PCV using temporary nitrogen generators.
- Primary Containment Vessel pressure: 156.3 (1:20am, April 7) → 130.6kPaabs, (2:00pm, June 5) approx. 39,100m<sup>3</sup>.

<Others>

- Since April 10, we have been clearing outdoor rubbles by a remote control to improve working environment.
- Since April 26, we are continuing to spray dust inhibitor in the site of the power station. (On June 4, approx. 17,700m<sup>2</sup>. On June 5, spraying around the gazebo, etc.).
- Since May 9, we commenced preparation work for installing support structure into the bottom of fuel spent pool of reactor building of Unit 4.
- Since May 10, we commenced clearing of rubble in front of carry-in gate for large stuff of reactor building of Unit 3 by using robots.
- Since May 13, preparation work for installation of a cover for the reactor building of Unit 1.
- Since May 30, we have been installing the circulating seawater cleaning system.
- On June 3, we installed temporary Reactor Pressure meter at Unit 1
- Since June 3, we have been carrying out restoration works of port related facilities
- On June 4, Investigation (measurement of dust, humidity) was done for the preparation of improvement of Unit 2 environment.
- Since June 4, we have been consecutively transferring large tanks to store and keep contaminated or treated water

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