Plant Status of Fukushima Daiichi Nuclear Power Station

June 2, 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 → Process Main Building of Central Radioactive Waste Treatment Facility (from 10:08 am, April 19 to 4:01 pm, May 26)	Increase of water level of Process Main Building: 3,894 mm as of 7:00am, June 1 (1mm increase from 7:00, June 1)
Unit 3	Unit 3 Turbine Building → 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: 2,870 mm as of 7:00am, June 1 (17 mm increase from 7:00, June 1)
	Unit 3 condenser → Unit 3 condensate storage tank (6/2 12:50～)	
Unit 6	Unit 6 Turbine Building →temporary tanks (from May 1 on demand basis, 6/2 14:00～ commenced serial transfer)	

◇Water level at the vertical shaft of the trench and T/B (As of 7:00 am, June 2)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
Unit 1	O.P. below +850 mm <measurement unable> No change from 7:00 am, June 1	O.P. +4,920 mm No change from 7:00 am, June 1
Unit 2	O.P. +3,723 mm (332mm) 55 mm increase since 7:00 am, June 1	O.P. +3,685 mm 58 mm increase since 7:00 am, June 1
Unit 3	O.P. +3,761 mm (265 mm) 26 mm increase since 7:00 am, June 1	O.P. +3,744 mm 24 mm increase since 7:00 am, June 1
Unit 4	—	O.P. +3,724 mm 26 mm increase since 7:00 am, June 1

- Blockage work at the vertical shaft of trench of Unit 3 completed on May 26.
- Blockage work at the vertical shaft of Unit 2 trench underway. (work expected to be completed today)

<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	Cecium-134	Cecium-137
Approx. 30m north to Discharge Canal of Units 5 & 6 of Fukushima Daiichi	June 1	9:25/14:00	ND/ND	0.83/0.55	0.69/0.31
Approx. 330m south to Discharge Canal of Units 1 to 4 of Fukushima Daiichi	June 1	9:10/13:45	ND/ND	0.43/0.42	0.43/0.42
Around the north Discharge Canal of Fukushima Daini (10km from Fukushima Daiichi)	June 1	9:30	ND	0.88	0.42
Around Iwasawa Seashore, Naraha Town (approx. 16km from Fukushima Daiichi)	June 1	7:50	ND	0.92	0.63

* Sampling at other locations was cancelled due to rough sea condition.

<Water Injection and Spraying to Spent Fuel Pools>

◇ Results on June 1

【Unit 2】 From 6:06 am – 6:53 am, freshwater injection from Spent Fuel Cooling and Filtering System (approx. 25 tons).

※ At 5:06 am, in order to inject water to temporarily stop a pump at the primary system of the circulating cooling system. At 7:06 am, to restart the pump.

【Unit 3】 From 2:34 pm – 3:54 pm, freshwater and hydrazine injection from Spent Fuel Cooling and Filtering System (approx. 50 tons).

◇ Plans on June 2

None

◇ Others

- We are conducting detailed nuclide analyses on the water collected on May 8 from the spent fuel pool of Unit 3.
- 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℃ → (11:00 June 2)40℃

<Water Injection to Reactor Pressure Vessels>

【Unit 1】 Injecting fresh water (approx. 5 m³/h):

At 11:00am, June 2, <Feed-water nozzle> 110.2℃

<Bottom of reactor pressure vessel>95.4℃

【Unit 2】 Injecting fresh water (Feed Water line: approx. 4.9m³/h)

At 11:00am, June 2, <Feed-water nozzle> 110.2℃

【Unit 3】 Injecting fresh water (Feed Water line approx. 11.5 m³/h)

At 11:00am, June 2, <Bottom of reactor pressure vessel> 143.0℃

- 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 m³/h to 12.5 m³/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 m³/h to 11.5 m³/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) → 128.4 kPaabs, (11:00am, June 2) approx. 37,000m³.

<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 the dust inhibitor. (On June 1, approx. 10,950m^2. On June 2, spraying around the Main Gate area, 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.

END