Plant Status of Fukushima Daiichi Nuclear Power Station

June 3, 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 3 (No change from 7:00, June 2)
	Unit 2 Vertical Shaft of Trench -> Unit 3 condenser (6/3 transfer scheduled)	
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: 2,890 mm as of 7:00am, June 3 (20 mm increase from 7:00, June 2)
	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 3)

	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 2	O.P. +4,920 mm No change from 7:00 am, June 2
Unit 2	O.P. +3,782 mm (218mm) 59 mm increase since 7:00 am, June 2	O.P. +3,742 mm 57 mm increase since 7:00 am, June 2
Unit 3	O.P. +3,782 mm (218 mm) 21 mm increase since 7:00 am, June 2	O.P. +3,767 mm 23 mm increase since 7:00 am, June 2
Unit 4	—	O.P. +3,758mm 34 mm increase since 7:00 am, June 2

- Blockage work at the vertical shaft of trench and pit of Unit 2, 3 underway. (work expected to be completed on 6/2. 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	Cecium-134	Cecium-137
Approx. 30m north to Discharge Canal of Units 5 & 6 of Fukushima Daiichi	June 2	9:15/14:00	ND/ND	1.2/0.88	0.78/0.64
Approx. 330m south to Discharge Canal of Units 1 to 4 of Fukushima Daiichi	June 2	9:00/13:45	ND/ND	0.80/0.40	0.59/0.31
Around the north Discharge Canal of Fukushima Daini (10km from Fukushima Daiichi)	June 2	9:05	ND	0.43	0.29
Around Iwasawa Seashore, Naraha Town (approx. 16km from Fukushima Daiichi)	June 2	8:05	ND	1.1	0.70
Approx. 3km from the offshore of Odaka Ward, Minamisoma City	June 2	9:10	ND	0.27	ND
Approx. 3km from the offshore of Iwasawa, Naraha Town	June 2	7:10	ND	0.27	0.19
Approx. 3km from the offshore of Onahama Port, Iwaki City *1	June 2	5:40/5/40	ND/ND	0.13/ND	0.11/0.05
Approx. 3km from Ena, Iwaki City *1	June 2	6:00/6:00	ND/ND	0.17/0.20	0.17/0.17
Approx. 3km from the offshore of Soma City*1	June 2	6:35/6:35	ND/ND	ND/ND	ND/ND
Approx. 5km from the offshore of Soma City*1	June 2	6:20/6:20	ND/ND	ND/ND	ND/ND
Approx. 5km from the offshore of Kashima, Minamioma City*1	June 2	6:00/6:00	ND/ND	ND/ND	0.18/ND
Approx. 5km from Numanouchi, Iwaki City *1	June 2	7:00/7:00	ND/ND	ND/ND	ND /0.18
Approx. 15km from the offshore of Ukedo River, Namie Town	June 2	8:40	ND	ND	ND
Approx. 15km from the offshore of Fukushima Daiichi	June 2	8:20	ND	ND	ND
Approx. 15km from the offshore of Fukushima Daini	June 2	7:55	ND	ND	ND
Approx. 15km from the offshore of Iwasawa Seashore, Naraha Town	June 2	7:30	ND	ND	ND

Approx. 15km from the offshore of Minamisoma City	June 2	9:00	ND	ND	ND
Approx. 15km from the offshore of Hirono Town	June 2	7:05	ND	ND	ND
Approx. 15km from Numanouchi, Iwaki City *2	June 2	8:00/8:00/8:00	ND/ND/ND	ND/ND/ND	ND/ND/ND
Approx. 30km from the offshore of Minamisoma City *2	June 2	7:50/7:50/7:50	ND/ND/ND	ND/ND/ND	ND/0.05/ND
Approx. 30km from the offshore of Ukedo River, Namie Town *2	June 2	6:50/6:50/6:50	ND/ND/ND	0.80/ND/ND	0.06/ND/ND
Approx. 30km from Numanouchi, Iwaki City *2	June 2	9:00/9:00/9:00	ND/ND/ND	ND/ND/ND	ND/ND/ND

*1: Nuclide Analysis Left number: high layer, Right number: lower layer

*2: Nuclide Analysis Left number: high layer, Middle number: medium layer , Right number: lower layer

<Water Injection and Spraying to Spent Fuel Pools>

◇ Results on June 2

None

◇ Results and Plans on June 3

【Unit 4】From approximately 2:35, we started spraying water and hydrazine by a concrete pumping vehicle. (approximately 210t).

◇ 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℃ → (11:00 June 3)35℃
  * We did not conduct detailed nuclide analyses on the water collected on May 8 from the spent fuel pool of Unit 3 from May11. Please accept our sincere apologies for this inconvenience.

<Water Injection to Reactor Pressure Vessels>

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

At 11:00am, June 3, <Feed-water nozzle> 111.6℃

<Bottom of reactor pressure vessel>96.4℃

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

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

-From 1:49 pm to 2:09 pm on June 3, we stopped injecting freshwater due to re-routing the water supply line for bypass interference with cover work at reactor.

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

At 11:00am, June 3, <Bottom of reactor pressure vessel> 149.8℃

- 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 m^3/h to 11.5 m^3/h.

-From 1:16 pm to 1:32 pm on June 3, we stopped injecting freshwater due to re-routing the water supply line for bypass interference with cover work at reactor.

【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) → 128.9 kPaabs, (11:00am, June 3) approx. 37,700m^3.

<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 2, approx. 15,725m^2. On June 3, 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.
- From 10:38 am to 12:21 pm on June 3, we installed temporary Reactor Pressure meter at Unit 1

END