

Plant Status of Fukushima Daiichi Nuclear Power Station

June 4, 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: 3,895 mm as of 7:00am, June 4 (1mm increase from 7:00, June 3)
	Unit 2 Vertical Shaft of Trench -> Unit 2 condenser (6/3 18:39 – 6/4 12:28)	
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: 2,910 mm as of 7:00am, June 4 (20 mm increase from 7:00, June 3)
	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 4)

	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 3	O.P. +4,920 mm No change from 7:00 am, June 3
Unit 2	O.P. +3,768 mm (232mm) 14 mm decrease since 7:00 am, June 3	O.P. +3,730 mm 12 mm decrease since 7:00 am, June 3
Unit 3	O.P. +3,803 mm (197 mm) 21 mm increase since 7:00 am, June 3	O.P. +3,789 mm 22 mm increase since 7:00 am, June 3
Unit 4	—	O.P. +3,772mm 14 mm increase since 7:00 am, June 3

- 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	Cesium-134	Cesium-137
Approx. 30m north to Discharge Canal of Units 5 & 6 of Fukushima Daiichi	June 3	9:30/13:55	ND/ND	0.75/0.43	0.57/0.39
Approx. 330m south to Discharge Canal of Units 1 to 4 of Fukushima Daiichi	June 3	9:10/13:40	ND/ND	0.37/0.57	0.44/0.40
Around the north Discharge Canal of Fukushima Daini (10km from Fukushima Daiichi)	June 3	9:10	ND	ND	0.18
Around Iwasawa Seashore, Naraha Town (approx. 16km from Fukushima Daiichi)	June 3	7:55	ND	0.18	0.17
Approx. 3km from the offshore of Iwasawa, Naraha Town	June 3	7:40/7:40	ND/ND	0.14/0.18	0.13/0.08
Approx. 3km from the offshore of 北部, Iwaki City *1	June 3	5:10/5:10	ND/ND	ND/ND	ND/ND
Approx. 3km from the offshore of Natsui River, Iwaki City *1	June 3	5:30/5:30	ND/ND	ND/ND	ND/ND
Approx. 3km from the offshore of Onahama Port, Iwaki City *1	June 3	6:15/6:15	ND/ND	ND/ND	ND/ND
Approx. 3km from Ena, Iwaki City *1	June 3	6:35/6:35	ND/ND	ND/ND	ND/ND
Approx. 3km from the offshore of Numaouchi, Iwaki City *1	June 3	5:45/5:45	ND/ND	ND/ND	ND/ND
Approx. 3km from the offshore of Toyoma, Iwaki City *1	June 3	6:00/6:00	ND/ND	ND/ND	0.19/ND
Approx. 5km from the offshore of Numaouchi, Iwaki City *1	June 3	7:20/7:20	ND/ND	ND/0.07	ND/ND
Approx. 8km from the offshore of Iwasawa, Naraha Town *1	June 3	8:05/8:05	ND/ND	ND/0.12	ND/0.09
Approx. 15km from the offshore of Numaouchi, Iwaki City *2	June 3	8:30/8:30/8:30	ND/ND/ND	ND/ND/ND	ND/ND/ND
Approx. 30km from the offshore of Numaouchi, Iwaki City *2	June 3	9:30/9:30/9:30	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 3

【Unit 4】14:35 to 21:15, we sprayed water and hydrazine by a concrete pumping vehicle (approx. 210t).

Plans on June 4

【Unit 4】From approximately 14:23, we started spraying water and hydrazine by a concrete pumping vehicle.

◇ 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 4)33°C

<Water Injection to Reactor Pressure Vessels>

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

At 11:00am, June 4, <Feed-water nozzle> 113.0°C

<Bottom of reactor pressure vessel>97.9°C

6/4 9:57 Due to route changing works of supply line to inject water to the reactor, we stopped the electric pump at 9:57 am (injection to the reactor has been suspended).

10:02 fire fighting pump start up, resumed injection

13:43 stopped fire fighting pump (injection to reactor suspended)

13:56 electric pump startup, resumed injection.

【Unit 2】 Injecting fresh water (Feed Water line:5.0m³/h)

At 11:00am, June 4, <Feed-water nozzle> 109.9°C

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

At 11:00am, June 4, <Bottom of reactor pressure vessel> 160.9°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 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) → 129.6kPaabs, (2:00pm, June 4) approx. 38,400m³.

<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 3, approx. 15,950m². On June 4, 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.

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