

Plant Status of Fukushima Daiichi Nuclear Power Station

June 8, 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 and from 6:39 pm, June 4)	Increase of water level of Process Main Building: 4,507 mm as of 7:00 am, June 8 (186 mm increase from 7:00 am, June 7)
	Unit 2 Vertical Shaft of Trench -> Unit 2 condenser (from 6:39 pm, June 3 to 12:28 pm, June 4)	
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: 2,978 mm as of 7:00am, June 8 (15 mm increase from 7:00 am, June 7)
	Unit 3 condenser → Unit 3 condensate storage tank (from 12:50 pm, June 2 to 9:56 pm, June 4 and from 6:26pm, June 5)	
Unit 6	Unit 6 Turbine Building 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 8)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
Unit 1	O.P. below +850 mm (>3,150mm) No change from 7:00 am, June 7	O.P. +4,920 mm No change from 7:00 am, June 7
Unit 2	O.P. +3,784 mm (216mm) 8 mm decrease since 7:00 am, June 7	O.P. +3,754 mm 10 mm decrease since 7:00 am, June 7
Unit 3	O.P. +3,794 mm (206 mm) 16 mm decrease since 7:00 am, June 7	O.P. +3,768 mm 18 mm decrease since 7:00 am, June 7
Unit 4	—	O.P. +3,773mm 22 mm decrease since 7:00 am, June 7

- 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 Location	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	6/7	9:30/14:05	ND/ND	0.50/0.42	0.38/ND
Approx. 330m south to Discharge Canal of Units 1 to 4 of Fukushima Daiichi	6/7	9:15/13:50	ND/ND	0.27/0.38	0.20/0.36
Around the north Discharge Canal of Fukushima Daini (10km from Fukushima Daiichi)	6/7	9:30	ND	ND	ND
Around Iwasawa Seashore, Naraha Town (approx. 16km from Fukushima Daiichi)	6/7	7:50	ND	0.16	0.08
Approx. 3km offshore of Haramachi-ku, Minami Soma City ^{*1}	6/7	10:05/10:05	ND/ND	ND/ND	ND/ND
Approx. 3km offshore of Odaka-ku, Minami Soma City ^{*1}	6/7	9:50/9:50	ND/ND	ND/ND	ND/ND
Approx. 3km from the offshore of northern part of Iwaki City ^{*1}	6/7	6:00/6:00	ND/ND	ND/ND	ND/ND
Approx 3km offshore of Iwasawa Seashore, Naraha Town ^{*1}	6/7	7:55/7:55	ND	0.18/0.13	0.07/0.08
Approx. 3km offshore of Onahama port, Iwaki City ^{*1}	6/7	6:00/6:00	ND/ND	ND/ND	ND/ND
Approx. 3km offshore of Ena, Iwaki City ^{*1}	6/7	6:20/6:20	ND/ND	0.11/0.11	0.08/ND
Approx. 3km offshore of Soma City ^{*1}	6/7	5:40/5:40	ND/ND	ND/ND	ND/ND
Approx. 5km offshore of Soma City ^{*1}	6/7	5:55/5:55	ND/ND	ND/ND	ND/ND
Approx. 5km offshore of Kashima, Minami Soma City ^{*1}	6/7	6:10/6:10	ND/ND	ND/ND	ND/ND
Approx. 8km offshore of Odaka-ku, Minami Soma City ^{*1}	6/7	9:30/9:30	ND/ND	ND/ND	ND/ND
Approx 8km offshore of Iwasawa Seashore, Naraha Town ^{*1}	6/7	8:15/8:15	ND/ND	0.07/ND	ND/ND
Approx. 30km offshore of Minami Soma City ^{*2}	6/7	7:15/7:15/7:15	ND/ND/ND	ND/ND/ND	ND/ND/ND
Approx. 30km offshore of Ukddogawa, Namie town ^{*2}	6/7	6:45/6:45/6:45	ND/ND/ND	ND/ND/ND	ND/ND/ND

※1 Analyses Results Left numeric: Upper Layer, Right numeric: Lower Layer

※2 Analyses Results Left numeric: Upper Layer, Middle numeric: Middle Layer, Right numeric: Lower Layer

<Water Injection and Spraying to Spent Fuel Pools>

◇ Results on June 7

None.

◇ Plans on June 8

【Unit 4】From 4:00 pm to 8:00 pm, planning to spray freshwater and hydrazine by a concrete pumping vehicle (approx. 140t).

◇ Others

- From May 31, cooling using the circulating cooling system for Spent Fuel Pool, Unit 2 is underway. Spent fuel pool temperature (5:00 pm May 31) 70°C → (11:00 am June 8)32°C
- From 9:00 am on June 8, in order to install an additional temporary residual heat removal seawater pump (total: 2), we stopped that pump.
From 12:35 pm, we restarted that temporary residual heat removal system.

<Water Injection to Reactor Pressure Vessels>

【Unit 1】 Injecting freshwater (reactor feed water system: 5.2 m³/h):

At 11:00am, June 8, <Feed-water nozzle> 116.0°C

<Bottom of reactor pressure vessel>99.4°C

【Unit 2】 Injecting freshwater (reactor feed water system:5.0m³/h)

At 11:00am, June 8, <Feed-water nozzle> 109.0°C

【Unit 3】 Injecting freshwater (reactor feed water system: 11.5 m³/h)

At 11:00am, June 8, <Bottom of reactor pressure vessel> 182.4°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) → 132.6kPaabs, (11:00am, June 8) approx. 41,000m³.

<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 dust inhibitor in the site of the power station. (On June 7, approx. 8,750m². On June 8, spraying around the observing point, etc.).
- From May 9 to June 6, we commenced preparation work for installing support structure into the bottom of fuel spent pool of reactor building of Unit 4.
- Since June 7, installation and construction of post material made of steel are commenced.
- 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.

- Since June 3, we have been carrying out restoration works of port related facilities
- Since June 4, large tank for storing contaminated water and treated water are transferring in series.
- Since June 4, setting work for water treatment facility, pipe arrangement / electric work and flow examination are being conducted.
- On June 8
 - 2:20 pm, we confirmed turning off of lights in the Main Control Room for Units 1 and 2.
 - 2:35 pm, we confirmed part of power boards in the power station are off.
 - 2:49 pm, we confirmed cessation of transmission from monitoring posts 7 and 8.
 - 2:57 pm, as we observed increase of pressure at the nitrogen gas supplying facility for Unit 1, we put the facility in stand-by. We are checking the cause.

END