

Plant Status of Fukushima Daiichi Nuclear Power Station

May 14th, 2011
Tokyo Electric Power Company

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

- From 10:08 am, April 19th, water has been transferred from the vertical shaft of the trench of Unit 2 to Central Radioactive Waste Treatment Facility: (From May 12th, 3:20 pm: resumed the transfer)
(Process Main Building: Increase of water level from the start: 2,463 mm (as of 7:00, May 14))
- From May 10th, installing a transferring line to the area of Unit 3 turbine building started. On May 12th, a leakage check has completed.
- From May 1st, draining water of the basement of Unit 6 turbine building has been transferred to temporary tanks.
(May 14th, around 10 am – continues).

Water level at the vertical shaft of the trench and T/B (As of 7:00 am, May 14th)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
Unit 1	O.P. +980 mm (3,020 mm) No change since 7:00 am, May 13 th	O.P. +5,050 mm No change since 7:00 am, May 13 th
Unit 2	O.P. +3,240 mm (760 mm) No change since 7:00 am, May 13 th	O.P. +3,230 mm 10 mm decrease since 7:00 am, May 13 th
Unit 3	O.P. +3,280 mm (720 mm) 20 mm increase since 7:00 am, May 13 th	O.P. +3,260 mm 20 mm increase since 7:00 am, May 13 th
Unit 4	-	O.P. +3,400 mm No change since 7:00 am, May 13 th

- Blockage work at the vertical shaft of trench has been implemented at Unit 2 and Unit 3.

<Monitoring of Radioactive Materials> *No off-shore data was taken due to a bad weather.

Nuclide Analysis of Seawater (Reference purpose)

Density limit by the announcement of Reactor Regulation:

I-131 : 0.04Bq/cm³ , Cs-134 : 0.06Bq/cm³ , Cs-137 : 0.09Bq/cm³

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	5/13	8:50/14:00	ND/ND	1.3/1.3	0.94/0.74
Approx. 330m south to Discharge Canal	5/13	8:30/13:40	0.11/0.19	1.2/1.3	0.82/0.69

of Units 1 to 4 of Fukushima Daiichi.					
Around the north Discharge Canal of Fukushima Daini (10km from Fukushima Daiichi)	5/13	8:30	ND	0.47	0.32
Around Iwasawa Seashore, Naraha Town (approx. 16km from Fukushima Daiichi)	5/13	7:50	ND	0.37	0.28
Approx. 3km from Onahama Port, Iwaki City *	5/13	6:10/6:10	ND/ND	ND/ND	ND/0.06
Approx. 3km from Ena Seashore, Iwaki City *	5/13	6:40/6:40	ND/ND	ND/ND	ND/ND

* Result: Left Number: Upper Layer, Right Number: Lower Layer

<Water Injection and Spraying to Spent Fuel Pools>

Result on May 13th

[Unit 4] From 16:04 to 19:04, fresh water (incl. hydrazine) was sprayed (approx. 100 t) by concrete pumping vehicle.

Result on May 14th

[Unit 2] From about 13:00 to , fresh water (incl. hydrazine) was injected by Spent Fuel Pool Cooling Material Cleaning System.

[Unit 1] From 15:07 to 15:18, fresh water was sprayed (canceled due to strong wind).

Others

- We are conducting detailed nuclide analyses on the water collected on April 12th from the spent fuel pool of Unit 4.
- We are conducting detailed nuclide analyses on the water collected on April 16th from the skimmer surge tank of Unit 2.
- We are conducting detailed nuclide analyses on the water collected on May 8th from the spent fuel pool of Unit 3.
- From April 22nd, we started to examine the level of water and the dose of radiation, etc. of the spent fuel pool of Unit 4.

<Water Injection to Reactor Pressure Vessels>

[Unit 1] Injecting fresh water (8.0 m³/h):

Reactor pressure vessel temperature:

At 11:00am, May 14th, <Feed-water nozzle> 111.0

<Bottom of reactor pressure vessel> 90.0

[Unit 2] Injecting fresh water (7.0 m³/h)

Reactor pressure vessel temperature:

At 11:00am, May 14th, <Feed-water nozzle> 114.3

[Unit 3] Injecting fresh water (Fire Protection System 9.0 m³/h + Feed Water System 6.0 m³/h)

Reactor pressure vessel temperature:

At 11:00am, May 14th, <Bottom of reactor pressure vessel> 147.1

Since 4.35 pm, May 12th, injection line has been changed from fire protection system to feed water system. (under monitoring the temperature)

[Unit 4] [Common spent fuel pool] No particular changes on parameters.

[Units 5/6] 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 7th, we started to inject nitrogen gas to PCV using temporary nitrogen generators.
- At 1:20am, April 7th, the D/W pressure was 156.3 kPaabs and it has changed to 121.2 kPaabs, as of 11:00am, May 14th. The injected amount of nitrogen gas was approx. 24,400m³.

<Improvement of Working Environment in the Reactor Building, Unit 1>

- On May 9th, we fully opened double doors and evaluated that there was no impact on the surrounding area based on the measurement of air dose rate.
- On May 9th, we conducted investigations of the site (regarding lighting equipment, shielding equipment and radiation dose).
- On May 10th: calibration of water level gauge and investigation of the site (checking situation of pipes etc.)
- On May 11th: calibration of water level gauge and calibration of pressure gauge of containment vessel.

<Others>

- Since April 10th, we have been clearing outdoor rubbles by a remote control to improve working environment.
- Since April 26th, we have continued to spray the dust inhibitor. (On May 13th, sprayed around Solid Waste Storage Area and the north side of T/B of Unit 1, etc. about 11,250 m³; On May 14th, sprayed around Solid Waste Storage Area and the east side of T/B of Unit 2, etc., about 10,250 m³).
- May 9th, we commenced preparation work for installing support structure into the bottom of fuel spent pool of reactor building of Unit 4.
- May 10th, commenced clearing of rubble in front of carry-in gate for large stuff of reactor building of Unit 3 by using robots.
- May 11th, during the blockage work of the vertical shaft, workers confirmed that water was flowing into power cable pit of south side of Unit 3 screen.
 - 18:30 – 18:40: pouring concrete in the cable pit
 - 18:45: confirmation of that leaking has stopped.
- May 12th, a reinforcement work of power source line of Unit 3 and 4

- May 13th, a preparation work for installation of a cover for the reactor building of Unit 1.
- May 14th, around 6:50, a worker of a sub-contractor became a bad health during a carrying work for drainage treatment system in the Centralized Waste Treatment Facility. He was carried to a hospital.

END