

Plant Status of Fukushima Daiichi Nuclear Power Station

May 12th, 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: (May 10th, 9:01 am: temporary suspended and May 12th, 3:20 pm: resumed the transfer)
- From May 10th, installing a transferring line to the area of Unit 3 turbine building started.
- From May 1st, draining water of the basement of Unit 6 turbine building has been transferred to temporary tanks.
(May 12th, around 10 am - 4 pm: approx. 120 t).
- From May 1st, draining water of the basement of Unit 6 reactor building has been transferred to Unit 6 Waste Treatment Building.
(May 12th, 10:30 – 12:30: approx. 7.5 t)

Water level at the vertical shaft of the trench and T/B (As of 7:00 am, May 11th)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
Unit 1	O.P. +1,260 mm (2,740 mm) No change since 7:00 am, May 11 th	O.P. +5,050 mm No change since 7:00 am, May 11 th
Unit 2	O.P. +3,220 mm (780 mm) 40 mm increase since 7:00 am, May 11 th	O.P. +3,100 mm No change since 7:00 am, May 11 th
Unit 3	O.P. +3,240 mm (760 mm) 20 mm increase since 7:00 am, May 11 th	O.P. +3,220 mm No change since 7:00 am, May 11 th
Unit 4	-	O.P. +3,350 mm 50 mm increase since 7:00 am, May 11 th

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

<Monitoring of Radioactive Materials>

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	5/11	9:00/14:30	ND/ND	0.97/1.2	0.63/0.83

Approx. 330m south to Discharge Canal of Units 1 to 4 of Fukushima Daiichi.	5/11	8:35/14:15 /17:30	0.14/ND /0.28	0.83/1.2 /2.8	0.56/0.78 /1.9
Around the north Discharge Canal of Fukushima Daini (10km from Fukushima Daiichi)	5/11	8:55	0.11	0.35	0.34
Around Iwasawa Seashore, Naraha Town (approx. 16km from Fukushima Daiichi)	5/11	8:00	ND	ND	0.27
Approx. 3km from Takadokohama Seashore, Ibaraki Prefecture	5/11	9:03	ND	ND	ND
Approx. 3km from Kujihama Seashore, Ibaraki Prefecture	5/11	8:02	ND	ND	ND
Approx. 3km from Oarai Seashore, Ibaraki Prefecture	5/11	10:53	ND	ND	ND
Approx. 3km from Hirai Seashore, Ibaraki Prefecture	5/11	8:48	ND	ND	ND
Approx. 3km from Hasaki Seashore, Ibaraki Prefecture	5/11	7:30	ND	ND	ND

<Water Injection and Spraying to Spent Fuel Pools>

Result on May 11th

[Unit 4] From 16:07 to 19:36, fresh water (incl. hydrazine) was sprayed (approx. 120 t) by concrete pumping vehicle.

Plan on May 12th

None

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 12th, <Feed-water nozzle> 1214.9

<Bottom of reactor pressure vessel> 92.5

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

Reactor pressure vessel temperature:

At 11:00am, May 12th, <Feed-water nozzle> 114.8

[Unit 3] Injecting fresh water (9.0 m³/h)

Reactor pressure vessel temperature:

At 11:00am, May 12th, <Bottom of reactor pressure vessel> 149.0

Since 4.35 pm, May 12th, injection line has been changed from fire protection system to feed water system.

[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 156.3kPaabs and it has changed to 121.2 kPaabs, as of 11:00am, May 12th. The injected amount of nitrogen gas was approx. 23,100m³.

<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 11th, sprayed around Solid Waste Storage Area etc., about 5,250 m³; On May 12th, sprayed around Solid Waste Storage Area etc., about 5,250 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.
- 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, reinforcement work of power source line of Unit 3 and 4

END