Plant Status of Fukushima Daiichi Nuclear Power Station

May 13th, 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 Process Main Building: (May 12th, 3:20 pm: restarted the transfer)
- From May 10th, installing a transferring line to the area of Unit 3 turbine building started. On May 12th, leakage check has been completed.
- From May 1st, draining water of the basement of Unit 6 turbine building has been transferred to temporary tanks.
  (May 13th, around 10 am - 3 pm: approx. 100 t).
- From May 1st, draining water of the basement of Unit 6 reactor building has been transferred to Unit 6 Waste Treatment Building.
  (May 13th, 11:30 – 13:15 : approx. 3.3 t)

◇Water level at the vertical shaft of the trench and T/B (As of 7:00 am, May 13th)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
Unit 1	O.P. +980 mm (3,020 mm) 280 mm decrease since 7:00 am, May 12th	O.P. +5,050 mm No change since 7:00 am, May 12th
Unit 2	O.P. +3,240 mm (760 mm) 20 mm increase since 7:00 am, May 12th	O.P. +3,240 mm 140 mm increase since 7:00 am, May 12th
Unit 3	O.P. +3,260 mm (740 mm) 20 mm increase since 7:00 am, May 12th	O.P. +3,240 mm 20 mm increase since 7:00 am, May 12th
Unit 4	—	O.P. +3,400 mm 50 mm increase since 7:00 am, May 12th

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

<Monitoring of Radioactive Materials> ※No sampling at the offshore due to 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	**Cecium-134**	**Cecium-137**
Approx. 30m north to Discharge Canal of Units 5 & 6 of Fukushima Daiichi	5/12	8:50/14:05	ND/0.20	1.3/1.4	0.91/0.96

Approx. 330m south to Discharge Canal of Units 1 to 4 of Fukushima Daiichi.	5/12	8:30/13:50	ND/ND	0.92/0.95	0.66/0.80
Around the north Discharge Canal of Fukushima Daini (10km from Fukushima Daiichi)	5/12	8:45	0.12	0.42	0.30
Around Iwasawa Seashore, Naraha Town (approx. 16km from Fukushima Daiichi)	5/12	7:50	ND	0.42	0.29
Approx. 3km from north offshore of Iwaki City※	5/12	6:45/6:45	ND/ND	0.12/0.18	0.09/0.09
Approx. 3km from offshore of Natsui Rivera※	5/12	6:25/6:25	ND/ND	0.08/0.10	0.06/0.09
Approx. 3km from offshore of Onahama Port (Upper layer)	5/12	6:10	ND	0.05	0.04
Approx. 3km from offshore of Numanouchi※	5/12	6:15/6:15	ND/ND	0.15/0.10	0.13/0.05
Approx. 3km from offshore of Toyoma※	5/12	5:55/5:55	ND/ND	ND/ND	ND/0.07

※ The result of analyses Left number : Upper Layer Right number : Lower Layer

<Water Injection and Spraying to Spent Fuel Pools>

◇Result on May 12th

None

◇Plan on May 13th

【Unit 4】 From 16:00 to 19:00, fresh water (incl. hydrazine) spray (approx. 100 t) by concrete pumping vehicle.

◇ 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 13th, <Feed-water nozzle> 114.2℃

<Bottom of reactor pressure vessel> 91.0℃

【Unit 2】 Injecting fresh water (7.0 m3/h)

Reactor pressure vessel temperature:

At 11:00am, May 13th, <Feed-water nozzle> 114.6℃

【Unit 3】 Injecting fresh water (fire extinction system 9.0 m3/h + feed water system 3.0m3/h)

Reactor pressure vessel temperature:

At 11:00am, May 13th, <Bottom of reactor pressure vessel> 142.7℃

Since 4.53 pm, May 12th, injection line has been changed from fire extinction 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.

<u><Injection of Nitrogen Gas to the Primary Containment Vessel of Unit 1 (PCV)></u>

◇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 120.4 kPaabs, as of 11:00am, May 13th. The injected amount of nitrogen gas was approx. 23,700m³.

<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.

<u><Others></u>

- 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 12th, sprayed around Solid Waste Storage Area etc., about 5,250 m3; On May 13th, sprayed around Solid Waste Storage Area etc., spraying around turbine building of Unit 1 etc.).
- 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