Plant Status of Fukushima Daiichi Nuclear Power Station

May 15th, 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: 2,578 mm (as of 7:00, May 15))
- 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, approximately 100m3, May 15th from 10am to 3pm, transferred approximately 100m3).

◇Water level at the vertical shaft of the trench and T/B (As of 7:00 am, May 15th)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
Unit 1	O.P. +1,090 mm (2,910 mm) (*) 10 mm increase since 7:00 am, May 14th	O.P. +5,050 mm No change since 7:00 am, May 14th
Unit 2	O.P. +3,240 mm (760 mm) No change since 7:00 am, May 14th	O.P. +3,230 mm No change since 7:00 am, May 14th
Unit 3	O.P. +3,300 mm (700 mm) 20 mm increase since 7:00 am, May 14th	O.P. +3,280 mm 20 mm increase since 7:00 am, May 14th
Unit 4	—	O.P. +3,400 mm No change since 7:00 am, May 14th

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

* Correction due to misread the site indicator (on and after 5:00 pm on May 12th) correct: O.P. from +1,080 mm to 1,090 mm; error: O.P. from +980 mm to 990 mm

<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	**Cecium-134**	**Cecium-137**

Approx. 30m north to Discharge Canal of Units 5 & 6 of Fukushima Daiichi	5/14	8:45/14:15	0.55/0.28	2.5/2.0	1.6/1.3
Approx. 330m south to Discharge Canal of Units 1 to 4 of Fukushima Daiichi.	5/14	8:30/13:55	ND / ND	1.2/1.1	0.91/0.73
Around the north Discharge Canal of Fukushima Daini (10km from Fukushima Daiichi)	5/14	8:40	ND	0.53	0.47
Around Iwasawa Seashore, Naraha Town (approx. 16km from Fukushima Daiichi)	5/14	7:55	0.17	0.57	0.29

<Water Injection and Spraying to Spent Fuel Pools>

◇Result on May 14th

【Unit 1】 From 3:07 pm to 3:18 pm, May 14th, we sprayed fresh water with the concrete pumping vehicle (We broke off due to a strong wind).

【Unit 2】 From 1:00 pm to 2:37 pm, May 14th, we started to inject fresh water and hydrazine through Fuel Pool Cooling and Filtering System.

◇Plan on May 15th

【Unit 4】 From 4:00 pm, May 15th, we started to inject fresh water and hydrazine with the 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 15th, <Feed-water nozzle> 110.4℃
<Bottom of reactor pressure vessel>88.6℃

【Unit 2】 Injecting fresh water (7.0 m3/h)
Reactor pressure vessel temperature:
At 11:00am, May 15th, <Feed-water nozzle> 113.7℃

【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 15th, <Bottom of reactor pressure vessel> 139.0℃

Since 4.35 pm, May 12th, injection line has been changed from fire protection system to feed water system. (under monitoring the temperature)
Since 2:33 pm, May 15th, started injecting boric acid.
【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 156.3 kPaabs and it has changed to 121.1 kPaabs, as of 11:00am, May 15th. The injected amount of nitrogen gas was approx. 25,100m³.

<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.

<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 14th sprayed about 12,250m3, on May 15th, sprayed around Solid Waste Storage Area, about 7,000 m3; continued).
- 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 13th, implemented confirmation at 1st floor northeast area and the basement of northwest stair in reactor building of unit 1. Confirmed accumulated water at underground of northwest stair in reactor. Confirmed the plant conditions inside of Unit 1's reactor building using the remote-controlled robot.
- At around 5:20am, May 15th, "Mega Float" left from Yokohama port to Onahama port.

END