

Plant Status of Fukushima Daiichi Nuclear Power Station

May 30th, 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)	Increase of water level of Process Main Building: 3,892 mm as of 7:00am, May 30 (1mm increase from 7:00, May 29)
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: 2,866 mm as of 7:00am, May 30 (35 mm decrease from 7:00, May 29)
Unit 6	Unit 6 Turbine Building →temporary tanks (from May 1 on demand basis)	May 29: approx. 400m ³ May 30: transfer underway from approx. 10:00 am (approx. 400m ³)

◇Water level at the vertical shaft of the trench and T/B (As of 7:00 am, May 30)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
Unit 1	O.P. below +850 mm No change from 7:00 am, May 29	O.P. +4,920 mm No change from 7:00 am, May 29
Unit 2	O.P. +3,520 mm (580mm) 62 mm increase since 7:00 am, May 29	O.P. +3,481 mm 61 mm increase since 7:00 am, May 29
Unit 3	O.P. +3,641 mm (402 mm) 44 mm increase since 7:00 am, May 29	O.P. +3,640 mm 42 mm increase since 7:00 am, May 29
Unit 4	—	O.P. +3,610 mm 36 mm increase since 7:00 am, May 29

- 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: 40Bq/L, Cs-134: 60Bq/L, Cs-137: 90Bq/L,

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	May 29	9:10/13:30	0.15/0.33	1.3/1.4	0.89/0.88
Approx. 330m south to Discharge Canal of Units 1 to 4 of Fukushima Daiichi	May 29	8:50/13:10	ND/ND	1.2/1.0	0.81/0.77
Around the north Discharge Canal of Fukushima Daini (10km from Fukushima Daiichi)	May 29	8:55	ND	ND	0.23
Around Iwasawa Seashore, Naraha Town (approx. 16km from Fukushima Daiichi)	May 29	8:05	ND	0.55	0.47

<Water Injection and Spraying to Spent Fuel Pools>

◇ Results on May 29

【Unit 1】 From 11:10 am - 3:35 pm, freshwater was injected from Spent Fuel Cooling and Filtering System (approx. 168 tons).

◇ Plans on May 30

【Unit 2】 From 12:06 pm – 1:52 pm, freshwater is being injected from Spent Fuel Cooling and Filtering System (approx. 53 tons).

Others

- We are conducting detailed nuclide analyses on the water collected on April 12 from the spent fuel pool of Unit 4.
- We are conducting detailed nuclide analyses on the water collected on April 16 from the skimmer surge tank of Unit 2.
- We are conducting detailed nuclide analyses on the water collected on May 8 from the spent fuel pool of Unit 3.

<Water Injection to Reactor Pressure Vessels>

【Unit 1】 Injecting fresh water (approx. 6 m³/h):

Reactor pressure vessel temperature:

At 11:00am, May 30, <Feed-water nozzle> 110.7°C

<Bottom of reactor pressure vessel>94.5°C

【Unit 2】 Injecting fresh water (Feed Water line: approx. 5 m³/h, Fire Extinction line approx. 1 m³/h)

Reactor pressure vessel temperature:

At 11:00am, May 30, <Feed-water nozzle> 110.4°C

- Since 11:33 am, May 29, injection line has been changed from fire protection system to feed water system (monitoring the temperature trend).
- From 11:59 pm, May 29, we gradually decreased the amount of water injected to the reactor pressure vessel by the fire protection system (from 12:01 am, May 30 : 2m³/h, from 10:38 am, May 30: 1m³/h)

【Unit 3】 Injecting fresh water (Feed Water line approx. 13.5 m³/h)

Reactor pressure vessel temperature:

At 11:00am, May 30, <Bottom of reactor pressure vessel> 129.6°C

- Since 4:53 pm, May 12, injection line has been changed from fire protection system to feed water system (monitoring the temperature trend).
- From, 4:01 pm, May 13, we gradually changed the amount of water injected to the reactor pressure vessel through the fire protection system and feed water system.
- At 8:54 pm, May 28, Stopped freshwater injection through fire extinction line

【Unit 4】 No particular changes on parameters.

【Units 5】 Reactor cold shutdown.

- 9:14 pm, May 28, found RHRS pumps being out of service.8:12 am, May 29, Replacement works to spare pumps started. At 12:31 pm, start spare pumps, 12:49 pm cooling of reactor recommenced.

【Units 6】 Reactor cold shutdown. No particular changes on parameters.

【Common spent fuel pool】 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.
- D/W pressure: 156.3 kPaabs (1:20am, April 7) -> 127.9 kPaabs, (11:00am, May 30) Injected amount of nitrogen gas was approx. 35,000m³.

<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 the dust inhibitor. (On May 29, sprayed in the area of approx. 8,750m². On May 30, we did not spray due to the rain.).
- Since May 9, we commenced preparation work for installing support structure into the bottom of fuel spent pool of reactor building of Unit 4.
- 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 24, we are installing major equipments such as heat exchange units regarding installing cyclic cooling system for spent fuel pool at Unit 2.
- Since May 25, we have conducted work to connect plumbing.
- Since May 26, TEPCO employees have entered Unit2 to conduct dust sampling around double doors (inside) of reactor building.
- May 27, we started to enter the reactor building of Unit 1 in order to conduct sampling survey of accumulated water on the underground floor, to install water level gauge, and to lay hoses.
- At 11:15 am, May 30, we conducted the leakage test of the secondary cooling system.
- At 3:02 pm, May 30, we started to operate the secondary cooling system.

END