

Plant Status of Fukushima Daiichi Nuclear Power Station

May 29th, 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: 3,891 mm as of 7:00am, May 29 (no change from 7:00, May 28) |
| 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: 2,901 mm as of 7:00am, May 29 (48 mm decrease from 7:00, May 28) |
| Unit 6 | Unit 6 Turbine Building temporary tanks (from May 1 on demand basis) | May 28: approx. 400m ³ May 29: transfer underway from approx. 9:00 am (approx. 400m ³) |

Water level at the vertical shaft of the trench and T/B (As of 7:00 am, May 29)

| | 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 28 | O.P. +4,920 mm No change from 7:00 am, May 28 |
| Unit 2 | O.P. +3,458 mm (542mm) 34 mm increase since 7:00 am, May 28 | O.P. +3,430 mm 38 mm increase since 7:00 am, May 28 |
| Unit 3 | O.P. +3,597 mm (403 mm) 28 mm increase since 7:00 am, May 28 | O.P. +3,598 mm 28 mm increase since 7:00 am, May 28 |
| Unit 4 | - | O.P. +3,574 mm 27 mm increase since 7:00 am, May 28 |

- 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 28 | 9:20/13:20 | 0.10/ND | 1.1/0.78 | 0.78/0.71 |
| Approx. 330m south to Discharge Canal of Units 1 to 4 of Fukushima Daiichi | May 28 | 9:00/13:00 | ND/ND | 1.2/0.85 | 0.67/0.60 |
| Around the north Discharge Canal of Fukushima Daiichi (10km from Fukushima Daiichi) | May 28 | 8:30 | ND | 0.32 | 0.18 |
| Around Iwasawa Seashore, Naraha Town (approx. 16km from Fukushima Daiichi) | May 28 | 7:50 | ND | 0.42 | 0.31 |

<Water Injection and Spraying to Spent Fuel Pools>

Results on May 28

[Unit 3] From 1:28 pm - 3:08 pm, freshwater and hydrazine was injected from Spent Fuel Cooling and Filtering System (approx. 50 tons).

[Unit 1] From 16:47 – 17:00 pm, freshwater was injected from Spent Fuel Cooling and Filtering System.

[Unit 4] From 16:47 – 17:00 pm, freshwater and hydrazine was sprayed by a concrete pumping vehicle (approx. 60 tons)..

Results on May 29

[Unit 1] From 11:00 – 15:35, freshwater was injected from Spent Fuel Cooling and Filtering System (approx. 200 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 29, <Feed-water nozzle> 114.1

<Bottom of reactor pressure vessel>98

[Unit 2] Injecting fresh water (Feed Water line: approx. 5 m³/h, Fire Extinction line approx. 7 m³/h)

Reactor pressure vessel temperature:

At 11:00am, May 29, <Feed-water nozzle> 111.5

11:33 am on May 29, injection by Feed Water line commenced.

[Unit 3] Injecting fresh water (Feed Water line approx. 13.5 m³/h, stopped injection by Fire Extinction line)

Reactor pressure vessel temperature:

At 11:00am, May 29, <Bottom of reactor pressure vessel> 123.2

- Since 4:53 pm, May 12, injection line has been changed from fire protection system to feed water system (monitoring the temperature trend).
- From 2:15 pm, May 20, we changed the amount of water injected to the reactor pressure vessel by the feed water system from 9m³/h to 12m³/h.
- From 5:39 pm, May 20, we gradually decreased the amount of water injected to the reactor pressure vessel by the fire protection system (from 5:00 am, May 21st : 6m³/h, from 11:31 am, May 23: 5m³/h, from 2:08 pm, May 23: 4m³/h, from 5:19 pm, May 23: 3m³/h)
- May 28, Stopped freshwater injection through fire extinction line

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

[Units 5/6] Reactor cold shutdown.

- 21:24, May 28, found RHRS pumps being out of service.8:12, May 29, Replacement works to spare pumps started. At 12:31, start spare pumps, 12:49 cooling of reactor recommenced.

<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) -> 131.7 kPaabs, (11:00am, May 29) Injected amount of nitrogen gas was approx. 34,300m³.

<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 28, sprayed in the area of approx. 4,375m². On May 29, we are spraying the dust inhibitor around the gate).
- 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. (Planned commencement of cooling: May 31)
- 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 around 14:10, May 29, at 20 km gate to the west of J-village, a worker of cooperating company incharge of unloading works was injured due to dropping steal stock on the right foot and transferred by amburance.

END