

Plant Status of Fukushima Daiichi Nuclear Power Station

May 3rd, 2011
Tokyo Electric Power Company

<Draining Water at Underground Floor of Turbine Building (T/B)>

Transference of water of Unit 2 to Central Radioactive Waste Treatment Facility

- From 10:08 am, April 19th to 9:16 am, April 29th, and after 2:05 pm, April 30th transferring water from the vertical shaft of the trench of Unit 2 to Central Radioactive Waste Treatment Facility is implemented.
(Water level increase at Process Main Building since the start of the transfer: 1,492 mm as of 7:00 am on May 3rd).
- From May 1st, transferring water accumulated in the basement of the turbine building of Unit 6 to temporary tanks was started.

Water level at the vertical shaft of the trench and T/B (As of 7:00 am, May 3rd)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
Unit 1	O.P. +2,060 mm (1,940 mm) not changed since 7:00 am, May 2 nd	O.P. +5,050 mm not changed since 7:00 am, May 2 nd
Unit 2	O.P. +3,170 mm (830 mm) 10mm increased since 7:00 am, May 2 nd	O.P. +3,100 mm not changed since 7:00 am, May 2 nd
Unit 3	O.P. +3,120 mm (880 mm) 10mm increased since 7:00 am, May 2 nd	O.P. +3,100 mm 50mm increased since 7:00 am, May 2 nd
Unit 4	-	O.P. +3,200 mm 50mm increased since 7:00 am, May 2 nd

<Monitoring of Radioactive Materials>

Density of Iodine 131 in the seawater (Reference purpose)

Density limit by the announcement of Reactor Regulation: 0.04Bq/cm³

Sampling: Everyday

Sampling Location (seacoast)	Date	Time		Density (Bq/cm ³)		Ratio to Criteria (times)	
Approx. 30m north to Discharge Canal of Units 5 & 6 of Fukushima Daiichi	5/2	9:30	15:15	0.038	0.015	Approx.0.95	Approx.0.38
Approx. 330m south to	5/2	8:45	14:50	0.014	0.021	Approx.0.35	Approx.0.53

Sampling Location (seacoast)	Date	Time	Density (Bq/cm ³)	Ratio to Criteria (times)
Discharge Canal of Units 1 to 4 of Fukushima Daiichi.				
Around the north Discharge Canal of Fukushima Daini (10km from Fukushima Daiichi)	5/2	8:35	0.011	Approx.0.28
Around Iwasawa Seashore (approx. 16km from Fukushima Daiichi)	5/2	8:10	0.0089	Approx.0.22

On May 2nd no sampling from offshore 10 points because of the bad weather

Sampling Location (offshore)	Date	Time	Density (Bq/cm ³)	Ratio to Criteria (times)
Approx. 3km from the offshore of Haramachi Ward, Minamisoma City	4/29	10:59	0.0054	Approx. 0.14
Approx. 3km from the offshore of Odaka Ward, Minamisoma City	4/29	10:39	0.0052	Approx. 0.13
Approx. 3km from the offshore of Iwasawa, Naraha Town	4/30	8:31	0.0085	Approx. 0.21
Approx. 3km from the offshore of the north of Iwaki City	5/2	8:08	Below detection level	-
Approx. 3km from the offshore of Natsugawa River, Iwaki City	5/2	7:35	Below detection level	-
Approx. 3km from the offshore of Onahama Port, Iwaki City	5/2	6:12	0.0051	Approx. 0.13
Approx. 3km from Ena, Iwaki City	5/2	6:30	Below detection level	-
Approx. 3km from Numanouchi, Iwaki City	5/2	7:15	0.0044	Approx. 0.11
Approx. 3km from Toyoma, Iwaki City	5/2	6:53	Below detection level	-
Approx. 8km from the offshore of Odaka Ward, Minamisoma City	4/29	10:06	0.010	Approx. 0.25
Approx. 8km from the offshore of Iwasawa, Naraha Town	4/30	8:56	0.014	Approx. 0.35
Approx. 15km from the offshore of Minamisoma	4/29	9:45	0.016	Approx. 0.40

Sampling Location (offshore)	Date	Time	Density (Bq/cm ³)	Ratio to Criteria (times)
City				
Approx. 15km from the offshore of Ukedo River, Namie Town	4/29	9:25	0.012	Approx. 0.30
Approx. 15km from the offshore of Fukushima Daiichi	4/29	9:00	0.021	Approx. 0.53
Approx. 15km from the offshore of Fukushima Daini	4/30	8:40	0.015	Approx. 0.38
Approx. 15km from the offshore of Iwasawa Seashore, Naraha Town	4/30	8:15	0.0064	Approx. 0.16
Approx. 15km from the offshore of Hirono Town	5/2	7:25	Below detection level	-

- From April 29th, we began sampling at five points 3km offshore of Ibaragi prefecture (Takadokohama shore, Kujihama shore, Oarai shore, Hirai shore and Namisaki shore). The result on April 29th was below detection level at all five points.

The density of Iodine 131 in the sub-drain (for reference)

Sampling interval: three times per week (Mon, Wed and Fri)

Sampling Location	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Deep Well
Sampling Date	5/2 10:30	5/2 10:35	5/2 10:45	5/2 11:23	5/2 9:40	5/2 9:35	5/2 10:10
Density (Bq/ cm ³)	30	190	47	0.012	Below detection level	0.059	Below detection level

<Water Injection and Spraying to Spent Fuel Pools>

Actual Result on May 2nd

[Unit 2] 10:05am ~ 11:40am Injection of freshwater by Fuel Pool Cooling and Filtering (Clean up) System (approx. 55t).

Plan on May 3rd

No water injection or spraying is planned.

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.
- 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:

Reactor pressure vessel temperature:

At 11:00am, May 3rd, <Feed-water nozzle> 141.9

<Bottom of reactor pressure vessel> 105.7

[Unit 2] Injecting fresh water

Reactor pressure vessel temperature:

At 11:00am, May 3rd, <Feed-water nozzle> 117.3

[Unit 3] Injecting fresh water

Reactor pressure vessel temperature:

At 11:00am, May 3rd, <Bottom of reactor pressure vessel> 135.1

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

[Units 5/6] Reactor cold shutdown. No particular changes on parameters.

- At 10:14am on April 29th, we changed the amount of injecting freshwater to the reactor of Unit 1 from 10.0 m³/h to 6.0m³/h.
- At 10:28am on May 3rd, we changed the amount of injecting freshwater to the reactor of Unit 3 from 6.8 m³/h to 7.0m³/h

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

Injection of nitrogen gas

- From 1:31am, April 7th, we started to inject nitrogen gas to PCV using temporary nitrogen generators.
- At 1:20am, April 7th, before we injected nitrogen gas, the D/W pressure was 156.3kPaabs and it has changed to 141.1kPaabs, as of 11:00am, May 3rd. The injected amount of nitrogen gas was approx. 17,200m³.

<Others>

- Since April 26th, we have continued to spray the dust inhibitor (On May 2nd, approx. 9,500 m² was sprayed at the west side of shallow draft quay and the south side of the reactor building of Unit 4; on May 3rd, approx. 9,300 m² was sprayed at the west side of shallow draft quay and the west side of the reactor building of Unit 4.)
- Since April 10th, we have been clearing outdoor rubbles by a remote control. (On May 3rd, the work was conducted)
- From May 2nd, preparation work to install the ambient air filtration system was initiated in order to improve the work environment in the reactor building of Unit 1.

End