

Plant Status of Fukushima Daiichi Nuclear Power Station

May 5th, 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: 1,605 mm as of 7:00 am on May 5th).
- From May 1st, transferring water accumulated in the basement of the turbine building of Unit 6 to temporary tanks was started.
(No transfer on May 4th, no transfer planned on May 5th)

Water level at the vertical shaft of the trench and T/B (As of 7:00 am, May 5th)

	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 4 th	O.P. +5,050 mm not changed since 7:00 am, May 4 th
Unit 2	O.P. +3,150 mm (850 mm) 10mm decreased since 7:00 am, May 4 th	O.P. +3,100 mm not changed since 7:00 am, May 4 th
Unit 3	O.P. +3,150 mm (850 mm) 10mm increased since 7:00 am, May 4 th	O.P. +3,100 mm not changed since 7:00 am, May 4 th
Unit 4	-	O.P. +3,200 mm not changed since 7:00 am, May 4 th

- From May 1st, Blockage at the vertical shaft of trench is being implemented at Unit 2. (From 10:00 am on May 4th, concrete is poured. No work on May 5th (checking the situation of the concrete).)

<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	5/4	9:10	14:00	0.0098	0.011	0.25	0.28
Approx. 330m south to Discharge Canal of Units 1 to 4 of Fukushima Daiichi.	5/4	8:45	13:30	0.0086	0.017	0.22	0.43
Around the north Discharge Canal of Fukushima Daini (10km from Fukushima Daiichi)	5/4	8:40		Below detection level		-	
Around Iwasawa Seashore (approx. 16km from Fukushima Daiichi)	5/4	8:10		Below detection level		-	

Sampling Location (offshore)	Date	Time		Density (Bq/cm ³)	Ratio to Criteria (times)
Approx. 3km from the offshore of Haramachi Ward, Minamisoma City	5/4	9:55		0.0030	0.08
Approx. 3km from the offshore of Odaka Ward, Minamisoma City	5/4	10:10		Below detection level	-
Approx. 3km from the offshore of Iwasawa, Naraha Town	5/4	8:07		Below detection level	-
Approx. 3km from the offshore of the north of Iwaki City	5/4	7:36		0.0052	0.13
Approx. 3km from the offshore of Natsuigawa River, Iwaki City	5/4	7:03		Below detection level	-
Approx. 3km from the offshore of Onahama Port, Iwaki City	5/4	5:49		0.0028	0.07
Approx. 3km from Ena, Iwaki City	5/4	6:05		Below detection level	-
Approx. 3km from Numanouchi, Iwaki City	5/4	6:45		Below detection level	-
Approx. 3km from Toyoma, Iwaki City	5/4	6:26		Below detection level	-
Approx. 8km from the offshore of Odaka Ward, Minamisoma City	5/4	9:55		Below detection level	-

Sampling Location (offshore)	Date	Time	Density (Bq/cm ³)	Ratio to Criteria (times)
Approx. 8km from the offshore of Iwasawa, Naraha Town	5/4	8:33	0.0035	0.09
Approx. 15km from the offshore of Minamisoma City	5/4	9:25	Below detection level	-
Approx. 15km from the offshore of Ukedo River, Namie Town	5/4	9:05	Below detection level	-
Approx. 15km from the offshore of Fukushima Daiichi	5/4	8:45	Below detection level	-
Approx. 15km from the offshore of Fukushima Daini	5/4	8:15	Below detection level	-
Approx. 15km from the offshore of Iwasawa Seashore, Naraha Town	5/4	7:40	0.0034	0.09
Approx. 15km from the offshore of Hirono Town	5/4	7:15	0.0036	0.09

<Water Injection and Spraying to Spent Fuel Pools>

Actual Result on May 4th

No water spraying conducted.

Actual Result on May 5th

[Unit 4] From around 12:19 pm, fresh water spraying started by 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.
- 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 5th, <Feed-water nozzle> 134.7

<Bottom of reactor pressure vessel> 101.5

[Unit 2] Injecting fresh water

Reactor pressure vessel temperature:

At 11:00am, May 5th, <Feed-water nozzle> 116.8

[Unit 3] Injecting fresh water

Reactor pressure vessel temperature:

At 11:00am, May 5th, <Bottom of reactor pressure vessel> 143.5

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

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

- At 10:09 am, on May 4th, we changed the amount of injecting freshwater to the reactor pressure vessel of Unit 3 from 7.0 m³/h to 9.0m³/h. Temperature change is being monitored.

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

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, before we injected nitrogen gas, the D/W pressure was 156.3kPaabs and it has changed to 135.8kPaabs, as of 11:00am, May 5th. The injected amount of nitrogen gas was approx. 18,600m³. (After we changed the gas amount injected to the reactor, the pressure inside the PCV has kept increasing.)

<Others>

- Since April 10th, we have been clearing outdoor rubbles by a remote control. (On May 5th, the work is conducted)
- Since April 26th, we have continued to spray the dust inhibitor (On May 4th, approx. 9,200 m² was sprayed at the west side of the reactor building of Unit 3, the west side slope of shallow draft quay and so on. On May 5th, approx. 9,150 m² is planned to be sprayed at the west side of shallow draft quay, the west side of the reactor building of Unit 2 and so on.)
- From May 2nd, preparation work to install the ambient air filtration system is conducted in order to improve the work environment in the reactor building of Unit 1. From around 11:32 am to around 11:57 am, workers entered in the reactor building of Unit 1 in order to measure the radiation dose ahead of the work. From around 1:32 pm to around 3:08 pm, the duct was installed.
- At around 11:00 am on May 5th, a worker of a partner company fell from the stepladder and got injured when assembling a temporary rest station at the parking area outside the west gate of the power station. The worker was taken by ambulance to the Fukushima Rosai Hospital. There is no radioactive contamination for the body of the worker.

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