

Plant Status of Fukushima Daiichi Nuclear Power Station

May 4th, 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 4th).
- From May 1st, transferring water accumulated in the basement of the turbine building of Unit 6 to temporary tanks was started.
(Approx. 114t transferred on May 3rd, no transfer planned on May 4th)

Water level at the vertical shaft of the trench and T/B (As of 7:00 am, May 4th)

	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 3 rd	O.P. +5,050 mm not changed since 7:00 am, May 3 rd
Unit 2	O.P. +3,160 mm (840 mm) 10mm decreased since 7:00 am, May 3 rd	O.P. +3,100 mm not changed since 7:00 am, May 3 rd
Unit 3	O.P. +3,140 mm (860 mm) 20mm increased since 7:00 am, May 3 rd	O.P. +3,100 mm not changed since 7:00 am, May 3 rd
Unit 4	-	O.P. +3,200 mm not changed since 7:00 am, May 3 rd

- From May 1st, Blockage at the vertical shaft of trench is being implemented at Unit 2. From 10:00 am, May 4th, concrete is poured.

<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)	
		9:20	14:10	0.016	0.010	0.40	0.25
Approx. 30m north to Discharge Canal of Units 5	5/3	9:20	14:10	0.016	0.010	0.40	0.25

Sampling Location (seacoast)	Date	Time		Density (Bq/cm ³)		Ratio to Criteria (times)	
& 6 of Fukushima Daiichi							
Approx. 330m south to Discharge Canal of Units 1 to 4 of Fukushima Daiichi.	5/3	8:55	13:40	Below detection level	Below detection level	-	-
Around the north Discharge Canal of Fukushima Daini (10km from Fukushima Daiichi)	5/3	8:35		0.0093		0.23	
Around Iwasawa Seashore (approx. 16km from Fukushima Daiichi)	5/3	8:10		0.0094		0.24	

At five locations off the coast of Ibaraki Prefecture, the most updated data is stated as sampling is done once every few days.

Sampling Location (offshore)	Date	Time		Density (Bq/cm ³)	Ratio to Criteria (times)
Approx. 3km from the offshore of Haramachi Ward, Minamisoma City	5/3	9:20		0.0033	0.08
Approx. 3km from the offshore of Odaka Ward, Minamisoma City	5/3	9:35		Below detection level	-
Approx. 3km from the offshore of Iwasawa, Naraha Town	5/3	8:13		Below detection level	-
Approx. 3km from the offshore of the north of Iwaki City	5/3	7:43		0.0054	0.14
Approx. 3km from the offshore of Natsuigawa River, Iwaki City	5/3	7:02		0.0045	0.11
Approx. 3km from the offshore of Onahama Port, Iwaki City	5/3	5:51		Below detection level	-
Approx. 3km from Ena, Iwaki City	5/3	6:08		0.0035	0.09
Approx. 3km from Numanouchi, Iwaki City	5/3	6:45		0.0040	0.10
Approx. 3km from Toyoma, Iwaki City	5/3	6:27		Below detection level	-
3 km offshore of Takado kohama coast Ibaraki Prefecture	4/29	9:00		Below detection level	-
3km offshore of	4/29	7:59		Below detection	-

Sampling Location (offshore)	Date	Time	Density (Bq/cm ³)	Ratio to Criteria (times)
Kujihama Coast Ibaraki Prefecture			level	
3km offshore of Oarai Coast Ibaraki Prefecture	4/29	10:46	Below detection level	-
3km offshore of Hirai Coast Ibaraki Prefecture	4/29	8:20	Below detection level	-
3km offshore of Namisaki Coast Ibaraki Prefecture	4/29	9:38	Below detection level	-
Approx. 8km from the offshore of Odaka Ward, Minamisoma City	5/3	10:00	0.0053	0.13
Approx. 8km from the offshore of Iwasawa, Naraha Town	5/3	8:40	Below detection level	-
Approx. 15km from the offshore of Minamisoma City	5/3	8:50	Below detection level	-
Approx. 15km from the offshore of Ukedo River, Namie Town	5/3	8:30	0.0093	0.23
Approx. 15km from the offshore of Fukushima Daiichi	5/3	8:05	0.0090	0.23
Approx. 15km from the offshore of Fukushima Daini	5/3	7:45	Below detection level	-
Approx. 15km from the offshore of Iwasawa Seashore, Naraha Town	5/3	7:20	0.0055	0.14
Approx. 15km from the offshore of Hirono Town	5/3	7:00	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 4th

None

Plan on May 5th

None

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 4th, <Feed-water nozzle> 137.5

<Bottom of reactor pressure vessel> 103.2

[Unit 2] Injecting fresh water

Reactor pressure vessel temperature:

At 11:00am, May 4th, <Feed-water nozzle> 117.0

[Unit 3] Injecting fresh water

Reactor pressure vessel temperature:

At 11:00am, May 4th, <Bottom of reactor pressure vessel> 140.0

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

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

- At 10:28 am, on May 3rd, we changed the amount of injecting freshwater to the reactor pressure vessel of Unit 3 from 6.8 m³/h to 7.0m³/h
- 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
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<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 141.0kPaabs, as of 11:00am, May 4th. The injected amount of nitrogen gas was approx. 17,900m³.

(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 4th, the work was conducted)
- Since April 26th, we have continued to spray the dust inhibitor (on May 3rd, approx. 9,000 m² was sprayed at the west side of shallow draft quay and the west side of the reactor building of Unit 3. on May 4th, approx. 9,800 m² is planned to be sprayed at the west side of shallow draft quay and the west side of the reactor building of Unit 3)
- From May 1st, conditions of the surrounding area of the south of the station (approximately 5km radius of the periphery) are being monitored by the unmanned helicopter (T-Hawk)
- 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