

## Plant Status of Fukushima Daiichi Nuclear Power Station

May 2<sup>nd</sup>, 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 19<sup>th</sup> to 9:16 am, April 29<sup>th</sup>, and after 2:05 pm, April 30<sup>th</sup> transferring water from the vertical shaft of the trench of Unit 2 to Central Radioactive Waste Treatment Facility was implemented.  
(Water level increase at Process Main Building: 1,377 mm as of 7:00 am on May 2<sup>nd</sup>).
- From 10:00 am, May 2<sup>nd</sup>, transferring puddle water 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 2<sup>nd</sup>)

	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 1 <sup>st</sup>	O.P. +5,050 mm not changed since 7:00 am, May 1 <sup>st</sup>
Unit 2	O.P. +3,160 mm (840 mm) not changed since 7:00 am, May 1 <sup>st</sup>	O.P. +3,100 mm not changed since 7:00 am, May 1 <sup>st</sup>
Unit 3	O.P. +3,110 mm (890 mm) 10mm increased since 7:00 am, May 1 <sup>st</sup>	O.P. +3,050 mm not changed since 7:00 am, May 1 <sup>st</sup>
Unit 4	—	O.P. +3,150 mm 50mm increased since 7:00 am, May 1 <sup>st</sup>

### <Monitoring of Radioactive Materials>

#### ◇ Density of Iodine 131 in the seawater (Reference purpose)

Density limit by the announcement of Reactor Regulation: 0.04Bq/cm<sup>3</sup>

Sampling: Everyday

Sampling Location (seacoast)	Date	Time		Density (Bq/cm <sup>3</sup> )		Ratio to Criteria (times)	
Approx. 30m north to Discharge Canal of Units 5 & 6 of Fukushima Daiichi	5/1	8:45	14:15	0.016	0.022	Approx.0.40	Approx.0.55

Sampling Location (seacoast)	Date	Time		Density (Bq/cm <sup>3</sup> )		Ratio to Criteria (times)	
Approx. 330m south to Discharge Canal of Units 1 to 4 of Fukushima Daiichi.	5/1	8:30	14:00	0.0069	0.013	Approx.0.17	Approx.0.33
Around the north Discharge Canal of Fukushima Daini (10km from Fukushima Daiichi)	5/1	8:40		0.013		Approx.0.33	
Around Iwasawa Seashore (approx. 16km from Fukushima Daiichi)	5/1	8:10		0.0097		Approx.0.24	

On May 1<sup>st</sup> no sampling from offshore 14 points because of the bad weather

Sampling Location (offshore)	Date	Time		Density (Bq/cm <sup>3</sup> )	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	4/30	8:04		0.0085	Approx. 0.21
Approx. 3km from the offshore of Natsuigawa River, Iwaki City	4/30	7:33		Below detection level	-
Approx. 3km from the offshore of Onahama Port, Iwaki City	5/1	6:00		0.010	Approx. 0.25
Approx. 3km from Ena, Iwaki City	5/1	6:20		0.010	Approx. 0.25
Approx. 3km from Numanouchi, Iwaki City	4/30	7:16		Below detection level	-
Approx. 3km from Toyoma, Iwaki City	5/1	6:50		0.0073	Approx. 0.18
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

Sampling Location (offshore)	Date	Time	Density (Bq/cm <sup>3</sup> )	Ratio to Criteria (times)
Approx. 15km from the offshore of Minamisoma City	4/29	9:45	0.016	Approx. 0.40
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	4/30	7:55	0.010	Approx. 0.25

- From April 29<sup>th</sup>, 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 29<sup>th</sup> was below detection level at all five points.

#### <Water Injection and Spraying to Spent Fuel Pools>

◇Actual Result on May 1<sup>st</sup>

No water injection or spraying

◇Actual Result on May 2<sup>nd</sup>

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

◇ Others

- We are conducting detailed nuclide analysis on the water collected on April 12<sup>th</sup> from the spent fuel pool of Unit 4.
- We are conducting detailed nuclide analysis on the water collected on April 16<sup>th</sup> from the skimmer surge tank of Unit 2.
- From April 22<sup>nd</sup>, 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 2<sup>nd</sup>, <Feed-water nozzle> 142.2 °C

<Bottom of reactor pressure vessel> 105.8 °C

【Unit 2】 Injecting fresh water

Reactor pressure vessel temperature:

At 11:00am, May 2<sup>nd</sup>, <Feed-water nozzle> 117.6 °C

【Unit 3】 Injecting fresh water

Reactor pressure vessel temperature:

At 11:00am, May 2<sup>nd</sup>, <Bottom of reactor pressure vessel> 125.3°C

【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 29<sup>th</sup>, we changed the amount of injecting freshwater to the reactor of Unit 1 from 10.0 m<sup>3</sup>/h to 6.0m<sup>3</sup>/h.

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

◇ Injection of nitrogen gas

- From 1:31am, April 7<sup>th</sup>, we started to inject nitrogen gas to PCV using temporary nitrogen generators.
- At 1:20am, April 7<sup>th</sup>, before we injected nitrogen gas, the D/W pressure was 156.3kPaabs and it has changed to 140.3kPaabs, as of 11:00am, May 2<sup>nd</sup>. The injected amount of nitrogen gas was approx. 16,600m<sup>3</sup>.

<Others>

- Since April 26<sup>th</sup>, we have continued to spray the dust inhibitor (On May 1<sup>st</sup>, approx. 5,400 m<sup>2</sup> were sprayed at the west side of shallow draft quay and the South-side of R/B of Unit 4; on May 2<sup>nd</sup>, approx. 9,500 m<sup>2</sup> planned to be sprayed at the mountain side of shallow draft quay and the south side of the reactor building of Unit 4.)
- Since April 10<sup>th</sup>, we have been clearing outdoor rubbles by a remote control. (On May 2<sup>nd</sup>, the work was conducted)
- Installation work of exhauster was initiated in order to improve the work environment in the reactor building of Unit 1.

End