

## Plant Status of Fukushima Daiichi Nuclear Power Station

May 10<sup>th</sup>, 2011  
Tokyo Electric Power Company

### <Draining Water on 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>, from 2:05 pm April 30<sup>th</sup> to 9:22 am May 7<sup>th</sup>, from 4:02 pm, May 7<sup>th</sup> to 9:01 am, May 10<sup>th</sup>, transferring water from the vertical shaft of the trench of Unit 2 to Central Radioactive Waste Treatment Facility is implemented: (currently suspended)  
From May 10<sup>th</sup>, installing a transferring line to the area of Unit 3 turbine building started.
  - From May 1<sup>st</sup>, transferring water accumulated in the basement of the turbine building of Unit 6 to temporary tanks was started.  
(Transferring water of approximately 60m<sup>3</sup> from 2:00 pm to 5:00 pm on May 9<sup>th</sup>:  
Transferring water started from 10:00 am, May 10<sup>th</sup> (approx. 120 m<sup>3</sup> is planned.)
  - Transferring water from the condenser of Unit 3 to the basement of the turbine building started from 16:18 on May 8<sup>th</sup> and finished at 5:41 am May 10<sup>th</sup>.

### □ Water level at the vertical shaft of the trench and T/B (As of 7:00 am, May 10<sup>th</sup>)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
Unit 1	O.P. +1,630 mm (2,370 mm) no change since 7:00 am, May 9 <sup>th</sup>	O.P. +5,050 mm no change since 7:00 am, May 9 <sup>th</sup>
Unit 2	O.P. +3,130 mm (870 mm) no change since 7:00 am, May 9 <sup>th</sup>	O.P. +3,100 mm no change since 7:00 am, May 9 <sup>th</sup>
Unit 3	O.P. +3,240 mm (760 mm) 10 mm increase by since 7:00 am, May 9 <sup>th</sup>	O.P. +3,260 mm 100 mm increase since 7:00 am, May 9 <sup>th</sup>
Unit 4	—	O.P. +3,300 mm 80 mm increase since 7:00 am, May 9 <sup>th</sup>

※ - From May 1<sup>st</sup>, Blockage at the vertical shaft of trench is being implemented at Unit 2.

### <Monitoring of Radioactive Materials>

#### ◇ Nuclide Analysis of Seawater (Reference purpose)

Density limit by the announcement of Reactor Regulation:

I-131:0.04Bq/cm<sup>3</sup>, Cs-134:0.06Bq/cm<sup>3</sup>, Cs-137: 0.09Bq/cm<sup>3</sup>

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	5/9	9:05/13:55	0.24/0.48	1.1/1.3	0.76/0.89
Approx. 330m south to Discharge Canal of Units 1 to 4 of Fukushima Daiichi.	5/9	8:45/13:40	0.12/0.16	1.1/0.92	0.63/0.68
Around the north Discharge Canal of Fukushima Daini (10km from Fukushima Daiichi)	5/9	8:50	0.12	0.57	0.44
Around Iwasawa Seashore, Naraha Town (approx. 16km from Fukushima Daiichi)	5/9	8:15	0.11	0.50	0.48
Approx. 3km from the offshore of Haramachi Ward, Minamisoma City	5/9	10:55	ND	0.33	ND
Approx. 3km from the offshore of Odaka Ward, Minamisoma City	5/9	11:10	ND	0.33	0.26
Approx. 3km from the offshore of Iwasawa, Naraha Town	5/9	10:50	ND	0.25	0.16
Approx. 3km from the offshore of the north of Iwaki City	5/9	5:10/5:10	ND/ND	ND/0.23	0.19/0.13
Approx. 3km from the offshore of Natsugawa River, Iwaki City	5/9	5:35/5:35	ND/ND	ND/0.13	ND/0.06
Approx. 3km from the offshore of Onahama Port, Iwaki City	5/9	6:10/6:20	ND/ND	ND/ND	ND/ND
Approx. 3km from Ena, Iwaki City	5/9	6:40/6:55	ND/ND	ND/0.09	ND/ND
Approx. 3km from Numanouchi, Iwaki City	5/9	5:45/5:45	ND/ND	ND/0.10	ND/ND
Approx. 3km from Toyoma, Iwaki City	5/9	6:00/6:00	ND/ND	ND/0.09	ND/0.06
Approx. 8km from the offshore of Odaka Ward, Minamisoma City	5/9	11:25	ND	ND	ND
Approx. 8km from the offshore of Iwasawa, Naraha Town	5/9	10:25	ND	ND	ND
Approx. 15km from the offshore of Minamisoma City	5/9	10:20	ND	0.22	0.20
Approx. 15km from the offshore of Ukedo River, Namie Town	5/9	9:55	ND	0.22	0.20
Approx. 15km from the offshore of Fukushima Daiichi	5/9	9:05	ND	ND	ND
Approx. 15km from the offshore of Fukushima Daini	5/9	8:20	ND	0.25	ND
Approx. 15km from the offshore of Iwasawa Seashore, Naraha Town	5/9	9:30	ND	0.28	0.14
Approx. 15km from the offshore of Hirono Town	5/9	9:00	ND	0.16	ND

Analyzed Results: left value: upper layer, right value: lower layer

◇ Nuclide Analysis of Sub-drain Water (Reference purpose)

Density limit by the announcement of Reactor Regulation:

I-131:0.04Bq/cm<sup>3</sup>, Cs-134:0.06Bq/cm<sup>3</sup>, Cs-137: 0.09Bq/cm<sup>3</sup>

Sampling Location	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Deep Well within the Site
Sampling Date	5/9 14:23	5/9 14:28	5/9 14:35	5/9 11:50	5/9 14:14	5/9 14:06	5/9 9:15
I-131 (Bq/cm <sup>3</sup> )	4.2	96	0.19	ND	ND	0.028	ND
Cs-134 (Bq/cm <sup>3</sup> )	10	13	0.26	0.053	ND	0.058	ND
Cs-137 (Bq/cm <sup>3</sup> )	12	15	0.25	0.046	0.0074	0.049	ND

<Water Injection and Spraying to Spent Fuel Pools>

□ Result on May 9<sup>th</sup>

【Unit 3】 From 12:14 to 15:00, fresh water was injected through the fuel pool cooling and filtering system of Unit 3 (approx. 80 t).

From 12:39 to 14:36, hydrazine was injected.

【Unit 4】 From 16:05 to 19:05, fresh water was sprayed by concrete pumping vehicle (approx. 100 t).

From 13:19 to 14:35, hydrazine was injected.

□ Results of and Plan for May 10<sup>th</sup>

【Unit 2】 From 13:09 to 14:45, fresh water (approx. 56 t) was injected through the fuel pool cooling and filtering system.

From 13:19 to 14:35, hydrazine was injected.

◇ Others

- We are conducting detailed nuclide analyses on the water collected on April 12<sup>th</sup> from the spent fuel pool of Unit 4.
- We are conducting detailed nuclide analyses 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.
- As to Unit 3, we collected samples of spent fuel pool water and conducted inside inspection by using camera.

<Water Injection to Reactor Pressure Vessels>

【Unit 1】 Injecting fresh water (8.0 m<sup>3</sup>/h):

Reactor pressure vessel temperature:

At 11:00am, May 10<sup>th</sup>, <Feed-water nozzle> 114.7°C

<Bottom of reactor pressure vessel> 94.5°C

【Unit 2】 Injecting fresh water (6.9 m<sup>3</sup>/h)

Reactor pressure vessel temperature:

At 11:00am, May 10<sup>th</sup>, <Feed-water nozzle> 115.3°C

【Unit 3】 Injecting fresh water (9.0 m<sup>3</sup>/h)

Reactor pressure vessel temperature:

At 11:00am, May 10<sup>th</sup>, <Bottom of reactor pressure vessel> 151.9°C

【Unit 4】 【Common spent fuel pool】 No particular changes on parameters.

【Units 5/6】 Reactor cold shutdown. No particular changes on parameters.

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

□ Injection of nitrogen gas

- From 1:31 am, 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 122.3 kPaabs, as of 11:00am, May 10<sup>th</sup>. The injected amount of nitrogen gas was approx. 21,900m<sup>3</sup>.

#### <Improvement of Working Environment in the Reactor Building, Unit 1>

- At 4:17 on May 9<sup>th</sup>, we fully opened double doors and evaluated that there was no impact on the surrounding area based on the measure of air dose rate.
- On May 9<sup>th</sup>, we conducted investigations of the site (regarding lighting equipment, shielding equipment and radiation dose).
- On May 10<sup>th</sup>: calibration of water level gauge equipment and investigation of the site (checking situation of pipes etc.)

#### <Others>

- Since April 10<sup>th</sup>, we have been clearing outdoor rubbles by a remote control to improve working environment.
- Since April 26<sup>th</sup>, we have continued to spray the dust inhibitor. (On May 9<sup>th</sup>, sprayed around Solid Waste Stock Area etc. (about 5,250 m<sup>3</sup>), On May 10<sup>th</sup>, sprayed around Solid Waste Stock Area etc.).
- May 9<sup>th</sup>, Commenced preparation work for installing support structure into the bottom of fuel spent pool of reactor building.

END