

## Plant Status of Fukushima Daiichi Nuclear Power Station

May 11<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 of approximately 120m<sup>3</sup> from 10:00 am to 4:00 pm on May 10<sup>th</sup>.  
Transferring water started from 10:00 am, May 11<sup>th</sup>.)
- 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. +1,260 mm (2,740 mm) 370mm decrease since 7:00 am, May 10 <sup>th</sup>	O.P. +5,050 mm no change since 7:00 am, May 10 <sup>th</sup>
Unit 2	O.P. +3,180 mm (870 mm) 50mm increase since 7:00 am, May 10 <sup>th</sup>	O.P. +3,100 mm no change since 7:00 am, May 10 <sup>th</sup>
Unit 3	O.P. +3,220 mm (780 mm) 20 mm decrease by since 7:00 am, May 10 <sup>th</sup>	O.P. +3,220 mm 40 mm decrease since 7:00 am, May 10 <sup>th</sup>
Unit 4	-	O.P. +3,300 mm No change since 7:00 am, May 10 <sup>th</sup>

Due to the suspension of transfer of drained water of Unit 2 and impact of the pipe flashing using drained water of the vertical shaft of unit 1.

- From May 1<sup>st</sup>, Blockage at the vertical shaft of trench is being implemented at Unit 2. Blockage of the vertical shaft of trench is planned for Unit 3.

<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	5/10	9:00/14:10	ND/0.19	1.1/0.90	0.99/0.62
Approx. 330m south to Discharge Canal of Units 1 to 4 of Fukushima Daiichi.	5/10	8:35/13:50	ND/ND	0.78/1.4	0.59/0.98
Around the north Discharge Canal of Fukushima Daini (10km from Fukushima Daiichi)	5/10	8:50	ND	0.43	0.31
Around Iwasawa Seashore, Naraha Town (approx. 16km from Fukushima Daiichi)	5/10	8:20	ND	0.40	0.30
Approx. 3km from the offshore of Haramachi Ward, Minamisoma City	5/10	10:15	ND	0.23	0.21
Approx. 3km from the offshore of Odaka Ward, Minamisoma City	5/10	10:35	ND	0.30	0.20
Approx. 3km from the offshore of Iwasawa, Naraha Town	5/10	10:50	ND	0.22	0.19
Approx. 3km from the offshore of the north of Iwaki City	5/10	10:50	0.09	0.28	0.22
Approx. 3km from the offshore of Natsugawa River, Iwaki City	5/10	9:50	ND	0.20	0.14
Approx. 3km from the offshore of Onahama Port, Iwaki City	5/10	9:40	ND	ND	ND
Approx. 3km from Ena, Iwaki City	5/10	10:10	ND	ND	ND
Approx. 3km from Numanouchi, Iwaki City	5/10	9:40	0.19	ND	ND
Approx. 3km from Toyoma, Iwaki City	5/10	9:05	ND	ND	ND
Approx. 8km from the offshore of Odaka Ward, Minamisoma City	5/10	8:30	ND	ND	ND
Approx. 8km from the offshore of Iwasawa, Naraha Town	5/10	7:55	ND	ND	ND
Approx. 15km from the offshore of Minamisoma City	5/10	9:00/14:10	ND/0.19	1.1/0.90	0.99/0.62
Approx. 15km from the offshore of Ukedo River, Namie Town	5/10	8:35/13:50	ND/ND	0.78/1.4	0.59/0.98
Approx. 15km from the offshore of Fukushima Daiichi	5/10	8:50	ND	0.43	0.31
Approx. 15km from the offshore of Fukushima Daini	5/10	8:20	ND	0.40	0.30
Approx. 15km from the offshore of Iwasawa Seashore, Naraha Town	5/10	10:15	ND	0.23	0.21

Approx. 15km from the offshore of Hirono Town	5/10	10:35	ND	0.30	0.20
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Analyzed Results: left value: upper layer, right value: lower layer

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

#### Result on May 10<sup>th</sup>

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

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

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

[Unit 4] Fresh water will be sprayed by concrete pumping vehicle(incl. hydrazine).

#### 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.
- We are conducting detailed nuclide analyses on the water collected on May 8<sup>th</sup> from the spent fuel pool of Unit 3.
- 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 (8.0 m3/h):

Reactor pressure vessel temperature:

At 11:00am, May 11<sup>th</sup>, <Feed-water nozzle> 114.1

<Bottom of reactor pressure vessel> 93.2

[Unit 2] Injecting fresh water (7.0 m3/h)

Reactor pressure vessel temperature:

At 11:00am, May 11<sup>th</sup>, <Feed-water nozzle> 115.0

[Unit 3] Injecting fresh water (9.0 m3/h)

Reactor pressure vessel temperature:

At 11:00am, May 11<sup>th</sup>, <Bottom of reactor pressure vessel> 149.4

[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 (it has been suspended due to the reinforcement

work of offsite power since 8:50 am, May 11<sup>th</sup>).

- 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 117.8 kPaabs, as of 11:00am, May 11<sup>th</sup>. The injected amount of nitrogen gas was approx. 22,600m<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.)
- On May 11<sup>th</sup>: calibration of water level gauge equipment and calibration of pressure gauge of containment vessel.

#### <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 11<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.
- May 10<sup>th</sup>, commenced clearing of rubble in front of carry in gate for large stuff of reactor building of Unit 3 by using robots.
- May 11<sup>th</sup>, blackout due to enforcement of offsite power (restoring work of Okuma line No2)

END