

# Plant Status of Fukushima Daiichi Nuclear Power Station

June 26, 2011

Tokyo Electric Power Company

## <Draining Water on Underground Floor of Turbine Building (T/B)>

Construction status of accumulated radioactive water treatment system and storage tank facility

### [Treatment Facility]

- 6/17 20:00 ~ Full operation started.
- 6/23 0:43 ~ Passing water test started at water treatment facilities with high radiation water  
13:00 Water treatment suspended for the flashing to change vessels  
14:44 ~ Passing water test restarted at water treatment facilities with high radiation water
- 6/24 10:00 ~ Water treatment suspended for the flashing to change vessels  
12:50 ~ Passing water test restarted at water treatment facilities with high radiation water  
12:00 Water treatment started at water desalination facilities
- 6/25 10:00 ~ Water treatment suspended for the flashing to change vessels  
15:00 ~ 16:10 We resumed operation of the water treatment facilities but automatically tripped  
16:35 We confirmed that the trip was triggered by “water level low” at the oil separator. We selected the other water level gauge with the same automatic trip function and restarted the water treatment facilities.
- 6/26 10:00 ~ Water treatment suspended for the flashing to change vessels

### [Storage Facility]

- June 8, big tanks to store and to keep treated or contaminated water being transferred and installed sequentially

Accumulated water in vertical shafts of trenches and at basement level of building (as of 6/26 7:00)

Unit	Draining water source      Place transferred	Status
1u	1u Condenser → CST (6/15 10:33am ~ 6/16 9:52am)	[Process Main Building]
2u	2u Vertical Shaft of Trench → Process Main Building, Central Radioactive Waste Treatment Facility (4/19 10:08am ~ 5/26 4:01pm, 6/4 6:39pm ~ 6/8 2:20pm, 6/8 6:03pm ~ 6/16 8:40am, 6/22 9:56am ~ ) 2u Vertical Shaft of Trench → 1u Condenser (6/17 2:20pm ~ 2:59pm, 6/20 1:37pm ~ 6/21 5:09pm)	Water level: O.P.+4,812 mm (45mm decrease from 6/25 7:00am) Accumulated total increase : 6,029mm  [Miscellaneous Solid Waste Volume Reduction Treatment Building]
3u	3u T/B → Miscellaneous Solid Waste Volume Reduction Treatment Building of Central Radioactive Waste Treatment Facility (5/17 18:04 ~ 5/25 9:10, 6/18 13:31 ~ 6/20 0:02) 3u T/B → Process Main Building of Central Radioactive Waste Treatment Facility (6/14 10:05am ~ 6/16 8:46am, 6/21 3:32pm ~ )	Water level: O.P.+3,095mm (18mm increase from 6/25 7:00am) Accumulated total increase:3,803mm
6u	6u Turbine Building → temporary tanks (5/1 ~ 6/22 on demand basis)	

Water level at the vertical shaft of the trench and T/B (as of 6/26 7:00)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
1u	O.P. <+850mm (>3,150mm), No change since 6/25 7:00am	O.P. +4,920 mm, No change since 6/25 7:00am
2u	O.P. +3,671mm (329mm), 25mm decrease since 6/25 7:00am	O.P. +3,662mm, 25mm decrease since 6/25 7:00am
3u	O.P. +3,837mm (163mm), 10mm decrease since 6/25 7:00am	O.P. +3,790mm 16mm decrease since 6/25 7:00am
4u	-	O.P. +3,800mm, 15 mm decrease since 6/25 7:00am

- Water level at Unit 1 R/B: 6/26 7:00am, O.P. +4,426mm, 40mm decrease since 6/25 7:00am.
- Unit 2 and 3, blockage to the extension of the pit and the unidentified flow path is underway.  
(Blockage work of pits similar to outflow event or whose closure would ensure flow routes completed by 6/10)

<Monitoring of Radioactive Materials >

Nuclide Analysis of Seawater (Reference)

Density limit by the announcement of Reactor Regulation: I-131: 40Bq/L\*, Cs-134: 60Bq/L, Cs-137: 90Bq/L

Sampling Location	Date	Time	Ratio to Criteria (times)		
			Iodine-131	Cesium-134	Cesium-137
30m north of 5 ~ 6u Discharge Canal, Fukushima Daiichi	6/25	8:55am/1:20pm	ND/ND	0.40/0.27	0.23/0.18
330m south of 1 ~ 4u Discharge Canal, Fukushima Daiichi	6/25	8:40am/1:05pm	ND/ND	0.30/0.28	0.20/0.21
Around north water discharge channel, Fukushima Daini (10km from Fukushima Daiichi)	6/25	8:00am	ND	0.08	0.05
Iwasawa shore, Naraha town (16km from Fukushima Daiichi)	6/25	7:35am	ND	ND	0.07

<Water Injection and Spraying to Spent Fuel Pools>

Results	-	None on June 25
Plans	Unit 3	From 9:56 am to 11:23 am, injected boric-acid solution by Fuel Pool Cooling and Clean up System. (approx 45t)

- 5/31 ~ , circulating cooling system for 2u Spent Fuel Pool in service. Pool water temperature 6/26 11:00am: 32

<Water Injection to Reactor Pressure Vessels> (as at 6/25 11:00)

Unit	Status of injecting water	Temp. of feed-water nozzle	Bottom of reactor pressure vessel
1u	Injecting freshwater (approx. 3.6m <sup>3</sup> /h)	117.5	102.0
2u	Injecting freshwater (approx. 3.5m <sup>3</sup> /h)	109.6	121.7
3u	Injecting freshwater (approx. 9.0 ~ 9.1m <sup>3</sup> /h)	153.9	128.7

[Unit 4] Units 5] [Units 6] [Common spent fuel pool] No particular changes on parameters.

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

- Primary Containment Vessel pressure: 156.3 (4/7 1:20am) 141.3 kPaabs, (6/26 2:00pm) approx. 53,000m<sup>3</sup>.

<Others>

- 4/10 ~ Clearance of outdoor rubbles by a remote control to improve working conditions.
- 4/26 ~ Spraying dust inhibitor in the site of the power station. (6/24, around main anti earthquake building approx.10,059m<sup>2</sup>. ,6/25 around centralized radiation waste treatment facility approx.2,700m<sup>2</sup> ).
- 5/10 ~ Clearing of rubble in front of carry-in gate for large stuff of reactor building of Unit 3 by robots.
- 5/13 ~ Preparation work for installation of Reactor Building Cover of Unit 1.
- 6/3 ~ Restoration works of port related facilities carried out.
- 6/7 ~ 6/20 Installation of support structure into the bottom of fuel spent pool of reactor building of Unit 4.
- 6/21 ~ Concrete filling and grout started.
- 6/19 ~ 6/23 Fresh water injection to reactor building well and instrument storage pool of Unit 4.
- 6/21 Investigation of measuring the radiation dose / dust density of reactor building of Unit 2.
- 6/22 Temporary Reactor Pressure Meter of Unit 2 installed.
- 6/23 Hoses for the nitrogen injection line of Reactor Containment Vessel of Unit 2 installed.
- 6/22 ~ On-site survey for installing alternative cooling equipment of fuel pool cooling and filtering system, Unit 1 implemented.
- 6/24 Unmanned helicopter, collecting dust from the opening mouth of reactor building of Unit 2 made an emergency landing on the top of the reactor building.
- 6/24 Cooling of the Unit 5 spent fuel pool by the pump of the fuel pool cooling and filtering system was initiated.
- 6/25 Airflow survey was conducted near the airlock and the large equipment carry-in entrance, R/B, Units 1&2.

END