

## Plant Status of Fukushima Daiichi Nuclear Power Station

October 1, 2011  
Tokyo Electric Power Company

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

Status of highly concentrated accumulated radioactive water treatment facility and storage tank facility

#### [Treatment Facility]

- 6/17 20:00 Full operation started.
- 6/24 12:00 Treatment started at desalination facilities
- 6/27 16:20 Circulating injection cooling started.
- 8/7 16:11 Evaporative Concentration Facility has started full operation.
- 8/19 19:33 We activated second cesium adsorption facility (System B) and started the treatment of accumulated water by the parallel operation of cesium adsorption instrument and decontamination instrument. At 19:41, the flow rate achieved steady state.
- 9/30 14:19 The oil separator treated water transfer pump was tripped due to overload, subsequently the Cesium adsorption apparatus tripped as well.
- 17:38 The backup pump was initiated and the water treatment by the apparatus was resumed.
- 17:50 Flow rate reached normal level.

#### [Storage Facility]

From June 8, big tanks to store and keep treated or contaminated water have been transferred and installed sequentially.

Accumulated water in vertical shafts of trenches and at basement level of building

Unit	Draining water source → Place transferred	Status
2u	·2u Vertical Shaft of Trench → Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	·9/13 9:51 ~ Transferring
3u	·3u T/B Central Radioactive Waste Treatment Facility [Process Main Building]	·9/15 9:54 ~ 9/30 9:46 Transferred
	·3u T/B Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	·9/30 10:00 ~ Transferring
6u	·6u T/B → temporary tanks	·9/30 10:00 ~ 16:00 Transferred

Transfer to:	Status of Water Level (as of 7:00 on 10/1)
Process Main Building	Water level : O.P.+ 4,546 mm (Accumulated total increase : 5,763 mm) 103 mm decrease from 9/30 7:00
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level : O.P.+ 1,934mm (Accumulated total increase : 2,660 mm) 118 mm increase from 9/30 7:00

Water level at the vertical shaft of the trench and T/B (as of 10/1 7:00)

	Vertical Shaft of Trench	T/B	R/B
1u	O.P. <+850mm (No change since 9/30 7:00)	O.P. +4,951mm (1mm decrease since 9/30 7:00)	O.P. +4,672mm (139mm decrease since 9/30 7:00)
2u	O.P. +2,784mm (13mm decrease since 9/30 7:00)	O.P. +2,816mm (13mm decrease since 9/30 7:00)	O.P. +2,894mm (3mm decrease since 9/30 7:00)
3u	O.P. +3,258mm (5mm decrease since 9/30 11:00*)	O.P. +3,028mm (11mm decrease since 9/30 7:00)	O.P. +3,156mm (9mm decrease since 9/30 7:00)
4u	-	O.P. +3,075mm (10mm decrease since 9/30 7:00)	O.P. +3,069mm (30mm decrease since 9/30 7:00)

As of 11:00 instead of 7:00 on Sep. 30 due to communication error. (The system resumed before noon)

<Monitoring of Radioactive Materials>  
Nuclide Analysis of Seawater (Reference)

Place of sampling	Date of sampling	Time of sampling	Ratio of density limit (times)		
			I-131	Cs-134	Cs-137
Approx. 30m North of Discharge Channel of 5-6U of 1F	9/30	10:05	ND	0.22	ND

\*Results of nuclide analysis of seawater, sampled on September 30 at 3 points around the coastal area are all ND for the 3 major nuclides (iodine-131, cesium-134 and cesium-137).

<Cooling of Spent Fuel Pools> (as of 10/1 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
1u	Circulating Cooling System	Operating from 8/10 11:22	26.5
2u	Circulating Cooling System	Operating from 5/31 17:21	29.0
3u	Circulating Cooling System	Operating from 6/30 18:33	28.2
4u	Circulating Cooling System	Operating from 7/31 10:08	39

[Unit 3] 9/29 13:20 ~ 15:10 Hydrazine injected to the spent fuel pool (approx 2m<sup>3</sup>).

[Unit 4] 8/20 ~ We started operation of desalinating facility of the spent fuel pool.

<Water Injection to Pressure Containment Vessels> (as of 10/1 11:00)

Unit	Status of injecting water	Temp. of feed-water nozzle	Bottom of reactor pressure vessel	Pressure of Primary Containment Vessel
1u	Injecting freshwater (approx. 3.7m <sup>3</sup> /h)	76.0	77.8	122.6 kPaabs
2u	Injecting freshwater (Feed Water System: approx. 3.8m <sup>3</sup> /h CS System: approx. 6.0 m <sup>3</sup> /h)	89.2	99.4	110 kPaabs
3u	Injecting freshwater (Feed Water System: approx. 2.5m <sup>3</sup> /h CS System: approx. 8.0 m <sup>3</sup> /h)	75.5	78.2	101.5 kPaabs

[Unit 4] [Unit 5] [Unit 6] No particular changes in parameters.

<Others>

- 4/10 ~ Clearance of outdoor rubbles by remote control to improve working conditions.
- 6/3 ~ Restoration works of port related facilities has been under operation.
- 7/12~ Construction work of installing steel pipe sheet pile against water leakage in the water intake channel.
- 9/28 We completed installation of steal sheet piles etc.
- 6/28 ~ Main construction work for installing the cover for the reactor building of Unit 1
- 8/10 ~ 9/9 Implemented setting up iron framework of the cover for the reactor building of Unit 1
- 9/10 Installment of wall panel for cover of reactor building of Unit 1 started.
- 9/30 At 15:00, in order to add transformer control panel as power supply for works related Unit 3, the power supply for Spent Fuel Pool Cooling was temporary stopped.

At 19:26, the power was restored and the cooling at the spent fuel pool in Unit 3 was resumed.

END