

## Plant Status of Fukushima Daiichi Nuclear Power Station

September 8, 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.
- 9/4 19:44 Considering the current balance between the storage capacity of fresh water and the amount of water injection to reactors, we stopped all of the evaporative concentration apparatuses of water desalination facilities, while desalination (reverse osmosis membrane type) continues.
- 9/8 8:00 Cesium absorption apparatus No.2 at the water treatment facility stopped. As we found out that the cause was erroneous operation, we restarted the apparatus at 12:09 pm. At 12:12 pm, the facility reached rated flow.

#### [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 [Process Main Building]	·8/30 9:39 ~ Transferring
3u	·3u T/B → Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	·8/30 9:54 ~ 9/8 9:11 Transferred
	·3u T/B → Central Radioactive Waste Treatment Facility [Process Main Building]	·9/8 9:30 ~ Transferring
6u	·6u Turbine Building → temporary tanks	·9/8 No Transfer

Transfer to:	Status of Water Level (as of 7:00 on 9/8)
Process Main Building	Water level : O.P.+ 4,476mm (Accumulated total increase : 5,693mm) 24 mm decrease from 9/7 7:00
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level : O.P.+ 2,818 mm (Accumulated total decrease : 3,544mm) 87 mm increase from 9/7 7:00

Water level at the vertical shaft of the trench and T/B (as of 9/8 7:00)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
1u	O.P. <+850mm (>3,150mm), No change since 9/7 7:00	O.P. +4,920mm, No change since 9/7 7:00
2u	O.P. +3,087mm (913mm), 8mm decrease since 9/7 7:00	O.P. +3,138mm, 5mm decrease since 9/7 7:00
3u	O.P. +3,314mm (686mm), 31mm decrease since 9/7 7:00	O.P. +3,155mm, 14mm decrease since 9/7 7:00
4u	-	O.P. +3,191mm, 7mm decrease since 9/7 7:00

- Water level at Unit 1 R/B: 9/8 7:00, O.P. +4,755 mm, 21mm decrease since 9/7 7:00.

<Monitoring of Radioactive Materials>

Nuclide Analysis of Seawater (Reference)

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

<Cooling of Spent Fuel Pools> (as of 9/8 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
1u	Circulating Cooling System	Operating from 8/10 11:22	30.0
2u	Circulating Cooling System	Operating from 5/31 17:21	32.0
3u	Circulating Cooling System	Operating from 6/30 18:33	30.8
4u	Circulating Cooling System	Operating from 7/31 10:08	40

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

<Water Injection to Pressure Containment Vessels> (as of 9/8 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. 3.8m <sup>3</sup> /h)	90.6	85.6	125.2 kPaabs
2u	Injecting freshwater (approx. 3.7m <sup>3</sup> /h)	107.2	116.6	117 kPaabs
3u	Injecting freshwater (Feed Water system: approx. 5.0m <sup>3</sup> /h CS system: approx. 2.9 m <sup>3</sup> /h)	103.7	97.0	101.5 kPaabs

[Units 4] [Unit 5] [Units 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.
- 6/28 ~ Main construction work for installing the cover for the reactor building of Unit 1
- 8/10 Started setting up iron framework of the cover for the reactor building of Unit 1
- 9/8 A worker of co-operating company forgot to bring the full-face mask when that worker commuted from J-Village to Fukushima Daiichi Nuclear Power Station. When the worker entered the Main Anti-Earthquake Building, it was found out that the worker did not wear the full-face mask. We evaluated the internal exposure dose of the worker and confirmed that the level was insignificant to cause bodily influence.
- 9/8 9:55-12:39 In order to prepare for the test-run for Residual Heat Removal System seawater system cooling pump (A), we stopped Residual Heat Removal System (B). With this, cooling of Reactor and Spent Fuel Pool were temporarily suspended.

END