

## Plant Status of Fukushima Daiichi Nuclear Power Station

August 27, 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, which was additionally installed to Water Treatment Facility to produce fresh water from concentrated seawater generated at Water Desalination Facility, has started full operation.
- 8/18 14:43 We started operation of the water treatment facility.  
(We started treatment of accumulated water at series operation including highly concentrated radioactive materials by cesium adsorption Instrument, 2<sup>nd</sup> cesium adsorption Instrument and decontamination instrument)
- 15:50 We confirmed flow rate reached normal level ,water treatment facility operated stably and operation status had no problem)
- 8/19 19:33 We activated second cesium adsorption facility (System B) and started parallel operation. At 19:41, the flow rate achieved steady state.
- 8/26 14:21 Cesium adsorption instruments were stopped due to the overload of transfer pump (A) for cesium adsorption treated water. However, water injection to the reactor is continued.
- 17:45 We switched from the pump (A) to the pump (B) for Cesium adsorption instruments. After rebooting the water treatment facility, we have restored the system under normal operation.
- 8/26 17:33 We stopped the operation of the desalination facilities (made by Toshiba) as scheduled in order to conduct switching work of power supply aiming to improve reliability.
- 19:20 We stopped the operation of the desalination facilities (made by Areva) as scheduled in order to conduct switching work of power supply aiming to improve reliability.
- 8/27 9:29 We turned off the power supply in order to conduct switching work of power supply.
- 12:47
- 14:25 We rebooted the desalination facilities (made by Toshiba).

#### [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 Mail Building]	·8/18 16:19 ~ 8/25 10:03 Transferred
	·2u Vertical Shaft of Trench Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	·8/25 10:03 ~ transferring is in operation
3u	·3u T/B → Central Radioactive Waste Treatment Facility [Process Main Building]	·8/23 16:15 ~ Transferring is in operation
6u	·6u Turbine Building → temporary tanks	·8/27 No transferring is scheduled.

Transfer to:	Status of Water Level (as of 7:00 on 8/27)
Process Main Building	Water level: O.P.+ 5,087 mm (Accumulated total increase: 6,304mm) 29mm increase from 8/26 7:00
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 2,921 mm (Accumulated total decrease: 3,647mm) 148 mm decrease from 8/26 7:00

Water level at the vertical shaft of the trench and T/B (as of 8/27 7:00)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
1u	O.P. <+850mm (>3,150mm), No change since 8/26 7:00	O.P. +4,920mm, No change since 8/26 7:00
2u	O.P. +3,489mm (511mm), 14mm decrease since 8/26 7:00	O.P. +3,514mm, 13mm decrease since 8/26 7:00
3u	O.P. +3,560mm (440mm), 33mm decrease since 8/26 7:00	O.P. +3,353mm, 46mm decrease since 8/26 7:00
4u	-	O.P. +3,447mm, 38mm decrease since 8/26 7:00

- Water level at Unit 1 R/B: 8/27 7:00, O.P. +4,795 mm, 17mm decrease since 8/26 7:00.

<Monitoring of Radioactive Materials>

As for the samples collected at 4 points of shores and 11 points of offshore of Fukushima Prefecture on August 26, main three nuclides (Iodine-131, Cesium-134 and Cesium-137) were all ND (not detected.)

<Cooling of Spent Fuel Pools> (as of 8/27 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
1u	Circulating Cooling System	Operating from 8/10 11:22	30
2u	Circulating Cooling System	Operating from 5/31 17:21	35
3u	Circulating Cooling System	Operating from 6/30 18:33	32.3
4u	Circulating Cooling System	Operating from 7/31 10:08	41

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

<Water Injection to Pressure Containment Vessels> (as of 8/27 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)	92.2	87.7	127.5kPaabs
2u	Injecting freshwater (approx. 3.6m <sup>3</sup> /h)	106.9	115.0	114kPaabs
3u	Injecting freshwater (approx. 7.0m <sup>3</sup> /h)	113.9	108.8	101.5kPaabs

[Units 4] [Unit 5] [Units 6] [Common spent fuel pool] 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
- 8/23 We confirmed minute amount of water leakage from the hose of primary system of alternative cooling facility for Unit 4 Spent Fuel Pool. We are continuing cooling the Spent Fuel Pool.

END