

Plant Status of Fukushima Daiichi Nuclear Power Station

October 17, 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

[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
Unit 2	· Unit 2T/B Central Radioactive Waste Treatment Facility [Process Main Building]	·14:17 on October 13 - Transferring
Unit 3	· Unit 3T/B Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	·14:02 on October 13 - Transferring
Unit 6	·Unit 6T/B Temporary tanks	· 10:00 on October 14 -16:00 Transferring

Place transferred	Status of Water Level (As of October 17 at 7:00)
Process Main Building	Water level: O.P.+ 2,570 mm (Accumulated total increase:3,787 mm) 16mm increase since 7:00 on October 16
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 2,688 mm (Accumulated total increase:3,414 mm) 76mm increase since 7:00 on October 16

Water level of the vertical shaft of the trench, T/B and R/B(As of October 17 at 7:00)

	Vertical Shaft of Trench	T/B	R/B
Unit 1	O.P.< + 850 mm (No change since 7:00 on October 16)	O.P.+ 4,932 mm (4mm decrease since 7:00 on October 16)	O.P.+ 4,408 mm (6mm increase since 7:00 on October 16)
Unit 2	O.P.+ 2,971 mm (No change since 7:00 on October 16)	O.P.+ 2,999 mm (2mm decrease since 7:00 on October 16)	O.P.+ 3,081 mm (3mm decrease since 7:00 on October 16)
Unit 3	O.P.+ 3,256 mm (35mm decrease since 7:00 on October 16)	O.P.+ 2,952 mm (44mm decrease since 7:00 on October 16)	O.P.+ 3,115 mm (43mm decrease since 7:00 on October 16)
Unit 4	-	O.P.+ 3,067 mm (36mm decrease since 7:00 on October 16)	O.P.+ 3,092 mm (34mm decrease since 7:00 on October 16)

<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	10/16	8:40	ND	0.11	ND

·Others: Results of nuclide analysis of seawater, sampled on October 16 at 3 points around the Fukushima coastal area, are all ND for the 3 major nuclides (iodine-131, cesium-134 and cesium-137).

<Cooling of Spent Fuel Pools> (As of October 17 at 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
<u>Unit 1</u>	Circulating Cooling System	Under operation(11:22 on August 10 -)	26.0
<u>Unit 2</u>	Circulating Cooling System	Under operation(17:21 on May 31 -)	29.0
<u>Unit 3</u>	Circulating Cooling System	Under operation(18:33 on June 30 -)	27.5
<u>Unit 4</u>	Circulating Cooling System	Under operation(10:08 on July 31 -)	37

[Unit 2] · 10:28 -12:06 on October 17: injected hydrazine [Anti-corrosion chemicals] to Spent Fuel Pool (Approx. 2 m³)

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

<Water Injection to Pressure Containment Vessels> (As of October 17 at 11:00)

Unit	Status of injecting water	Feed-water nozzle Temp.	Reactor pressure vessel Bottom temp.	Pressure of Primary Containment Vessel
Unit 1	Injecting freshwater (Feed Water System: Approx. 3.7m ³ /h)	71.7	73.7	120.5 kPaabs
Unit 2	Injecting freshwater (Feed Water System: Approx. 3.5 m ³ /h,Core Spray System: Approx. 7.1 m ³ /h)	76.4	82.3	119 kPaabs
Unit 3	Injecting freshwater (Feed Water System: Approx. 2.2 m ³ /h,Core Spray System: Approx. 8.0 m ³ /h)	70.3	72.8	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.
- 6/28 ~ 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 ~ 10/14 Installment of wall panel for cover of reactor building of Unit 1
- 10/15 ~ We are continuously implementing related work for installing a cover over Unit 1 Reactor Building.
- 10/7 ~ We are spraying purified accumulated water at Unit 5 and 6 continually in order to prevent dust scattering and potential fire outbreaks from the cut down trees.