

Plant Status of Fukushima Daiichi Nuclear Power Station

November 14, 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 of radioactive material removal instruments started.
- 6/24 12:00 Start of desalination facilities operation (RO membrane system)
- 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]

- 6/8 ~ 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 1	·Unit 1T/B Unit 2T/B	·From 15:42 on November 11 to 10:45 on November 13 Transferred
Unit 2	·Unit 2T/B Central Radioactive Waste Treatment Facility [ Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)]	·From 9:10 on November 10 Being transferred
Unit 3	·Unit 3T/B Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	·From 10:11 on November 2 to 15:05 on November 8 Transferred
Unit 6	·Unit 6T/B Temporary tanks	11/14 no transfer scheduled

Place transferred	Status of Water Level (As of November 14 at 7:00)
Process Main Building	Water level: O.P.+ 1,557mm(Accumulated total increase:2,774 mm) 109mm decrease since 7:00 on November 13
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 2,209mm(Accumulated total increase:2,935 mm) 15mm decrease since 7:00 on November 13

Water level of the vertical shaft of the trench, T/B and R/B (As of November 14 at 7:00)

	Vertical Shaft of Trench	T/B	R/B
Unit 1	O.P.< + 850 mm (No change since 7:00 on November 13)	O.P.+ 3,433 mm (4mm decrease since 7:00 on November 13)	O.P.+ 4,610 mm (21mm decrease since 7:00 on November 13)
Unit 2	O.P.+ 3,165 mm (6mm decrease since 7:00 on November 13)	O.P.+ 3,168 mm (7mm decrease since 7:00 on November 13)	O.P.+ 3,265 mm (2mm decrease since 7:00 on November 13)

Unit 3	O.P.+ 3,303 mm (24mm increase since 7:00 on November 13)	O.P.+ 3,092 mm (17mm increase since 7:00 on November 13)	O.P.+ 3,286 mm (17mm increase since 7:00 on November 13)
Unit 4	-	O.P.+ 3,080 mm (25mm increase since 7:00 on November 13)	O.P.+ 3,089 mm (39mm increase since 7:00 on November 13)

<Monitoring of Radioactive Materials>

Nuclide Analysis of Seawater(Reference) Since Oct 24, an approach to decrease the detection limits of radioactivity density was started.

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	11/13	8:40	ND	0.10	0.08
Approx 330m South of Discharge Channel of 1-4u of 1F	11/13	8:20	ND	0.03	0.03
Discharge Channel of 3,4U of 2F	11/13	8:00	ND	0.03	ND
Approx 7km South of Discharge Channel of 1,2u of 2F	11/13	7:40	ND	ND	0.01

· Results of nuclide analysis of seawater at 6 points offshore Miyagi Prefecture sampled on November 10 are all ND for the 3 major nuclides (iodine-131, cesium-134 and cesium-137).

<Cooling of Spent Fuel Pools> (As of November 14 at 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
Unit 1	Circulating Cooling System	Under operation(11:22 on August 10 -)	21.0 *
Unit 2	Circulating Cooling System	Under operation(17:21 on May 31 -)	23.1
Unit 3	Circulating Cooling System	Under operation(18:33 on June 30 -)	22.2
Unit 4	Circulating Cooling System	Under operation(10:08 on July 31 -)	31

[Unit 2] · 11/6 ~ We started operation of radioactive material decontamination instrument of spent fuel pool.

· 11/14 1:29 pm-3:14 pm We started injecting hydrazine (as a preservative) in the Spent Fuel Pools (approximately 2m<sup>3</sup>).

<Water Injection to Pressure Containment Vessels> (As of November 14 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. 7.7 m <sup>3</sup> /h)	37.9	38.7	122.2 kPaabs
Unit 2	Injecting freshwater (Feed Water System: Approx. 2.8 m <sup>3</sup> /h, Core Spray System: Approx. 7.3 m <sup>3</sup> /h)	66.1	69.0	109 kPaabs
Unit 3	Injecting freshwater (Feed Water System: Approx. 2.6 m <sup>3</sup> /h, Core Spray System: Approx. 8.1 m <sup>3</sup> /h)	58.3	69.8	101.5 kPaabs

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

<Others>

- 10/7 ~ Continuously implementing water spray using water after purifying accumulated water of Unit 5 and Unit 6 to prevent spontaneous fire of trimmed trees and diffusion of dust.
- 10/14 12:32 pm The alarm device of the post at the main gate was activated. The cause for this was specified as a clog in the filter. At 1:08 pm on the same day we reset the device and restarted monitoring. The dust concentration around the main gate was  $6 * 10^{-6}(\text{Bq}/\text{cm}^3)$  and was below the designated point  $1 * 10^{-4}(\text{Bq}/\text{cm}^3)$  at which full face masks are required. The order that was announced at 12:39 pm to wear full face masks was withdrawn at 2:11 pm.

End