

Plant Status of Fukushima Daiichi Nuclear Power Station

November 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 of radioactive material removal instruments started.
- 6/24 12:00 Start of desalination facilities operation
- 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.
- 10/9 11:45 we confirmed that the test runs of the three evaporative concentration apparatus (3A, 3B, 3C) that were additionally installed in the water desalination were successfully completed.
- 11/1 we started full operation of these three evaporative concentration apparatus (3A, 3B, 3C) considering the balance of both the accumulated water and the coolant injection to the reactor.

[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 2	· Unit 2T/B Central Radioactive Waste Treatment Facility [ Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)]	· 9:54 on October 28 – 10:02 on October 31 Transferred
Unit 3	· Unit 3T/B Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	· 10:00 on October 20 – October 28 9:16 Transferred
Unit 6	· Unit 6T/B Temporary tanks	· On November 1 No transfer
	· Temporary tanks Mega float	· Transferred from 10:00 to 16:00 October 31

Place transferred	Status of Water Level (As of November 1 at 7:00)
Process Main Building	Water level: O.P.+ 3,038 mm(Accumulated total increase:4,255 mm) 150mm decrease since 7:00 on October 31
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 2,072 mm(Accumulated total increase:2,798 mm) 209mm decrease since 7:00 on October 31

Water level of the vertical shaft of the trench, T/B and R/B(As of November 1 at 7:00)

	Vertical Shaft of Trench	T/B	R/B
Unit 1	O.P.< + 850 mm (No change since 7:00 on October 31)	O.P.+ 4,251 mm (37mm increase since 7:00 on October 31)	O.P.+ 4,258 mm (26mm increase since 7:00 on October 31)
Unit 2	O.P.+ 2,823 mm (51mm increase since 7:00 on October 31)	O.P.+ 2,858 mm (45mm increase since 7:00 on October 31)	O.P.+ 2,934 mm (37mm increase since 7:00 on October 31)
Unit 3	O.P.+ 3,237 mm (20mm increase since 7:00 on October 31)	O.P.+ 3,037 mm (23mm increase since 7:00 on October 31)	O.P.+ 3,212 mm (25mm increase since 7:00 on October 31)
Unit 4	-	O.P.+ 3,025 mm (24mm increase since 7:00 on October 31)	O.P.+ 3,036 mm (16mm increase since 7:00 on October 31)

<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	10/31	8:50	ND	0.09	0.06
Approx. 330m South of Discharge Channel of 1-4U of 1F	10/31	8:30	ND	0.02	0.03
South Discharge Channel, 2F (Approx.16km from 1F)	10/31	8:05	ND	0.02	0.01

· Others: results of nuclide analysis of seawater at 1 point around the shore sampled on October 31 are all ND for the 3 major nuclides (iodine-131, cesium-134 and cesium-137).

<Cooling of Spent Fuel Pools> (As of November 1 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 -)	22.0
Unit 2	Circulating Cooling System	Under operation(17:21 on May 31 -)	25.2
Unit 3	Circulating Cooling System	Under operation(18:33 on June 30 -)	23.7
Unit 4	Circulating Cooling System	Under operation(10:08 on July 31 -)	31

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

<Water Injection to Pressure Containment Vessels> (As of November 1 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. 7.5 m <sup>3</sup> /h)	53.5	54.8	124.3 kPaabs
Unit 2	Injecting freshwater (Feed Water System: Approx. 2.3 m <sup>3</sup> /h,Core Spray System: Approx. 6.8 m <sup>3</sup> /h)	72.3	76.8	114 kPaabs
Unit 3	Injecting freshwater (Feed Water System: Approx. 2.5 m <sup>3</sup> /h,Core Spray System: Approx. 8.1 m <sup>3</sup> /h)	64.7	70.7	101.5 kPaabs

[Unit 2] ·11/1 15:50 we changed the water injection from Feed Water System to approx.3.0 m<sup>3</sup>/h and water injection from Core spray System to approx.7.0 m<sup>3</sup>/h

[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.
- ·11/1 11:23-13:23 we conducted a dust sampling around the blowout panel of the reactor building of reactor Unit 2.

End