

Plant Status of Fukushima Daiichi Nuclear Power Station

October 31, 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.

[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 ----- · Temporary tanks Mega float	· On October 31 No transfer ----- · From 10:00 on October 31 Transferring

Place transferred	Status of Water Level (As of October 31 at 7:00)
Process Main Building	Water level: O.P.+ 3,188 mm(Accumulated total increase:4,405 mm) 186mm decrease since 7:00 on October 30
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 2,281 mm(Accumulated total increase:3,007 mm) 36mm increase since 7:00 on October 30

Water level of the vertical shaft of the trench, T/B and R/B(As of October 31 at 7:00)

	Vertical Shaft of Trench	T/B	R/B
Unit 1	O.P.< + 850 mm (No change since 7:00 on October 30)	O.P.+ 4,214 mm (40mm increase since 7:00 on October 30)	O.P.+ 4,232 mm (31mm increase since 7:00 on October 30)
Unit 2	O.P.+ 2,772 mm (35mm decrease since 7:00 on October 30)	O.P.+ 2,813 mm (32mm decrease since 7:00 on October 30)	O.P.+ 2,897 mm (26mm decrease since 7:00 on October 30)
Unit 3	O.P.+ 3,217 mm	O.P.+ 3,014 mm (24mm increase since 7:00 on	O.P.+ 3,187 mm (25mm increase since 7:00 on

	(20mm increase since 7:00 on October 30)	October 30)	October 30)
Unit 4	-	O.P.+ 3,001 mm (21mm increase since 7:00 on October 30)	O.P.+ 3,020 mm (18mm increase since 7:00 on October 30)

<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	10/30	8:20	ND	0.09	0.06
Approx. 330m South of Discharge Channel of 1-4U of 1F	10/30	8:05	ND	0.03	0.02
South Discharge Channel, 2F (Approx.16km from 1F)	10/30	7:20	ND	0.02	0.01

Others: results of nuclide analysis of seawater, at 1 point around the shore sampled on October 30 and 5 points offshore of Fukushima sampled on October 29, are all ND for the 3 major nuclides (iodine-131, cesium-134 and cesium-137).

<Cooling of Spent Fuel Pools> (As of October 31 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 -)	22.0
<u>Unit 2</u>	Circulating Cooling System	Under operation(17:21 on May 31 -)	25.1
<u>Unit 3</u>	Circulating Cooling System	Under operation(18:33 on June 30 -)	23.6
<u>Unit 4</u>	Circulating Cooling System	Under operation(10:08 on July 31 -)	31

[Unit 2] · 10/31 10:12 - 11:50 , we injected hydrazine[corrosion inhibitor] to spent fuel pool(approx. 2m³)

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

<Water Injection to Pressure Containment Vessels> (As of October 31 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. 6.5 m ³ /h)	58.0	59.4	124.8 kPaabs
Unit 2	Injecting freshwater (Feed Water System: Approx. 2.4 m ³ /h,Core Spray System: Approx. 6.9 m ³ /h)	72.3	76.3	114 kPaabs
Unit 3	Injecting freshwater (Feed Water System: Approx. 2.5 m ³ /h,Core Spray System: Approx. 8.0 m ³ /h)	65.0	71.0	101.5 kPaabs

[Unit 1] · 10/31 14:59 we changed the water injection rate to Reactor, Unit 1 through Feed Water System to approx.7.5 m³/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

· 10/27

5 and Unit 6 to prevent spontaneous fire of trimmed trees and diffusion of dust.

While the staff from a cooperating company was conducting an annual checkup of the ceiling crane, which handles used fuel casks, a crack was found on the casing of the connection point of the vehicle for driving. We will inspect the further details of the connection point.

End