

Plant Status of Fukushima Daiichi Nuclear Power Station

January 30, 2012
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]

- At 18:42 on January 17, 2012: We actuated Cesium adsorption apparatus. At 18:45, the flow rate reached steady state.
- At 12:06 on January 29, we restarted the second Cesium adsorption apparatus (Sarry). At 12:18 it reached its regular flow rate.

[Storage Facility]

- June 8, 2011 ~ : Large 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, Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	· Transferred from 21:45 on January 29 to 8:19 on January 30
	· Unit 2T/B Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)]	· 16:05 on January 30 - transferring
Unit 3	· Unit 3T/B Central Radioactive Waste Treatment Facility [Process Main Building, Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)]	· Transferred from 21:50 on January 29 to 8:23 on January 30
	· Unit 3T/B Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)]	· 16:12 on January 30 - transferring
Unit 6	· Unit 6T/B Temporary tanks	· No transfer planned on January 30

Place transferred	Status of Water Level (As of January 30 at 7:00)
Process Main Building	Water level: O.P.+ 4,259 mm(Accumulated total increase:5,476 mm), increased 70mm since 7:00 am on January 29
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 2,244mm(Accumulated total increase:2,970 mm), decreased 114mm since 7:00 am on January 29

Water level of the vertical shaft of the trench, T/B and R/B(As of January 30 at 7:00)

	Vertical Shaft of Trench	T/B	R/B
Unit 1	O.P. <+ 850 mm (No change since 7:00 on January 29)	O.P.+ 2,752 mm (16mm increase since 7:00 on January 29)	O.P.+ 4,220 mm (1mm decrease since 7:00 on January 29)
Unit 2	O.P.+ 3,085 mm (1mm increase since 7:00 on January 29)	O.P.+ 3,056 mm (No change since 7:00 on January 29)	O.P.+ 3,223 mm (No change since 7:00 on January 29)

Unit 3	O.P.+ 3,032 mm (7mm decrease since 7:00 on January 29)	O.P.+ 2,937 mm (8mm decrease since 7:00 on January 29)	O.P.+ 3,242 mm (8mm decrease since 7:00 on January 29)
Unit 4	-	O.P.+ 2,956 mm (23mm decrease since 7:00 on January 29)	O.P.+ 2,989 mm (11mm decrease since 7:00 on January 29)

<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
Around 30m north of the discharge channel of 5 and 6Units, 1F	1/29	8:40	ND	0.03	0.03
Around 330m south of the discharge channel of 1-4Units, 1F	1/29	9:20	ND	0.02	0.02

· At the one coast point (sampled on January 29) and two offshore points (sampled on January 28) of Fukushima Prefecture, all the major 3 nuclides (I-131, Cs-134 and Cs-137) were ND.

<Cooling of Spent Fuel Pools >(As of January 30 at 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
Unit 1	Circulating Cooling System	Under operation	12.0
Unit 2	Circulating Cooling System	Under operation	12.4
Unit 3	Circulating Cooling System	Under operation	12.9
Unit 4	Circulating Cooling System	Air fin cooler of Secondary System out of operation	27

- [Unit 1] · Air fin cooler of secondary system of spent fuel pool has been temporarily suspended in order to prevent over cooling of alternative cooling system of spent fuel pool since 15:05 on January 30. (Fuel pool temperature at the time of cooling suspend: 12)
- [Unit 2] · A desalination equipment has been activated in order to reduce density of salt from the spent fuel pool since 11:50 on January 19.
- [Unit 3] · A radioactive material removal equipment has been activated in order to remove radioactive materials from the spent fuel pool since 15:18 on January 14.
- [Unit 4] · Air fin cooler of secondary system of spent fuel pool has been temporarily suspended in order to prevent over cooling of alternative cooling system of spent fuel pool since 16:27 on January 29. (Fuel pool temperature at the time of cooling suspend: 21)
- The suspended air fin cooler was restarted at 15:13 on January 30. (Fuel pool temperature at the time of cooling restart: 30)

<Water Injection to Pressure Containment Vessels >(As of January 30 at 11:00)

Unit	Status of water injection	Feed-water nozzle Temp.	Reactor pressure vessel Bottom temp.	Pressure of primary containment vessel
Unit 1	Injecting freshwater (Feed Water System: Approx. 7.0m ³ /h, Core Spray System: Approx. 0.0 m ³ /h)	24.7	25.1	106.2 kPaabs
Unit 2	Injecting freshwater (Feed Water System: Approx. 6.1 m ³ /h, Core Spray System: Approx. 3.0 m ³ /h)	46.5	50.7	109 kPaabs
Unit 3	Injecting freshwater (Feed Water System: Approx. 6.0 m ³ /h, Core Spray System: Approx. 2.0 m ³ /h)	43.0	52.4	101.6 kPaabs

- [Unit 1] · At 10:38 on January 30, we increased the water injection volume from the feed water system from approx. 5.6

m³/h to approx. 6.5 m³/h, and decreased the volume from the reactor core spray system from 0.9 m³/h to approx. 0m³/h.

- At 15:50 on January 30, since the replacing work of the water injection line of the reactor water injection pump on the hill was finished, we decreased the water injection volume from the feed water system from approx. 6.5 m³/h to approx. 5.5 m³/h, and increased the volume from the reactor core spray system from 0 m³/h to approx. 1.0m³/h.

[Unit 2] ·At 10:10 on January 30, we decreased the water injection volume from the feed water system from approx. 7.0 m³/h to approx. 6.0 m³/h, and increased the volume from the reactor core spray system from 1.8m³/h to approx. 3.0m³/h.

[Unit 3] ·At 10:14 on January 30, we decreased the water injection volume from the feed water system from approx. 7.1 m³/h to approx. 6.0 m³/h, and increased the volume from the reactor core spray system from 1.9m³/h to approx. 3.0m³/h.

[Unit 4] [Unit 5] [Unit 6] ·No major change

<Others>

- October 7, 2011 ~ : 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.
- January 11, 2012 ~ : As finding accumulated water including radioactive materials (December 18, 2011) at the trench between Process Main Building of Central Radioactive Waste Treatment Facility and Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building), we started inspection of the other trenches in the site. *Please refer to the other reference materials for the result of daily inspection.
- January 29 2012 22:55 When we conducted night patrol under the series of water leakage that was thought to be due to freeze, we found a freeze of filtrate water at near the feeding water header valve of the circulating cooling equipment of the spent fuel pool. At near the points, although we were conducting water passing to prevent freezing ,we tried to improve the condition of the facility through warming the facility by a floodlight which was installed to prevent damage of the facility,
- January 30 2012 6:25 We started morning patrol and confirmed water passing trough the area.
The water leakage newly found was as follows;
 - The exit line flange of seal water cooler of evaporative concentration apparatus 3B
(Found at around 18:20 on January 29, 2012)
(Filtrate water*: Approx. 30L)
 - Minimum circulation pipe flange of the Normal Reactor Injection Pump (B) on the Hill
(Found at around 9:03 on January 30, 2012)
(Filtrate water*: Approx. one drop in 7 ~ 8 seconds)

*Filtrate water: water taken from the barrage

End