

Plant Status of Fukushima Daiichi Nuclear Power Station

January 18, 2012
Tokyo Electric Power Company

Correction

(Wrong) instantaneous stop of
(Correct) instant voltage dip at

<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]

- 12:12 on January 16, 2012: we started the second cesium absorption apparatus. At 12:17 the flow rate reached steady state.
- Around 16:10 on January 17, we confirmed stop operation of Cesium adsorption apparatus due to instant voltage dip at Yonomori line No.1 and 2.
- 18:42 on January 17, 2012: We actuated Cesium adsorption apparatus. At 18:45 the flow rate reached steady state.

[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 2 T/B Central Radioactive Waste Treatment Facility [Process Main Building] Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	· Transferred from 14:57 on Jan. 15 to 14:10 on Jan. 17.
Unit 3	· Unit 3 T/B Central Radioactive Waste Treatment Facility [Process Main Building, Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	· Transferred from 14:48 on Jan 15 to 14:14 on Jan. 17.
Unit 6	· Unit 6 T/B Temporary tanks	No plan to transfer on Jan 18

Transferring destination	Water level at transferring destination (as of 7:00 am on January 18)
Process Main Building	O.P.+4,547 mm (cumulative elevation of water level:5,764 mm), decrease 14mm from 7:00 am on January 17
Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)	O.P.+2,844 mm (cumulative elevation of water level:3,570 mm), decrease 442 mm from 7:00 am on January 17

Water level of the vertical shaft of the trench, T/B and R/B(As of January 18 at 7:00)

	Vertical Shaft of Trench	T/B	R/B
Unit 1	O.P. <+ 850 mm (No change since 7:00 on January 17)	O.P.+ 3,246 mm (15 mm increase since 7:00 on January 17)	O.P.+ 4,165 mm (8 mm decrease since 7:00 on January 17)
Unit 2	O.P.+ 2,922 mm (41 mm increase since 7:00 on January 17)	O.P.+ 2,913 mm (36 mm increase since 7:00 on January 17)	O.P.+ 3,063 mm (17 mm increase since 7:00 on January 17)
Unit 3	O.P.+ 3,065 mm (15 mm decrease since 7:00 on January 17)	O.P.+ 3,016 mm (43 mm increase since 7:00 on January 17)	O.P.+ 3,288 mm (33 mm increase since 7:00 on January 17)
Unit 4	-	O.P.+ 3,005 mm (24 mm decrease since 7:00 on January 17)	O.P.+ 3,025 mm (26 mm decrease since 7:00 on January 17)

<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 30 m north from discharge channel of 5-6U, 1F	January 17	8:40	ND	0.03	0.04
Around 330 m south from discharge channel of 1-4U, 1F	January 17	8:20	ND	0.04	0.03
Around discharge channel of 3-4U, 1F	January 17	8:30	ND	ND	0.01
Around 7 km south from discharge channel of 1-2U, 1F	January 17	8:10	ND	ND	0.01
Around 550m from North discharge channel of 1F (Unmanned Survey Ship)	January 16	13:11	ND	0.02	0.01
Around 300m from Port entrance of 1F (Unmanned Survey Ship)	January 16	13:20	ND	0.02	0.02
Around 600m from South discharge channel of 1F (Unmanned Survey Ship)	January 16	13:28	ND	ND	0.01

·Others: Samples from 7 points at offshore of Fukushima (sampled on January 16) showed ND for all three major nuclides (Iodine-131, Cs-134, 137).

<Cooling of Spent Fuel Pools > (As of January 18 at 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
Unit 1	Circulating Cooling System	Under operation	13.0
Unit 2	Circulating Cooling System	Under operation	12.6
Unit 3	Circulating Cooling System	Under operation	12.6
Unit 4	Circulating Cooling System	Under operation	21

- [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 Jan 14, 2012.
 - Around 16:10 on January 17, 2012, we confirmed stop operation of the SFP alternative cooling system and the radioactive material removal equipment due to instant voltage dip at Yonomori line No.1 and 2.
 - At 17:15, we started SFP alternative cooling system.
 - At 19:04, we started the radioactive material removal equipment.

< Water Injection to Pressure Containment Vessels > (As of January 18 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.4.5 m ³ /h, Core Spray System: Approx.2.0 m ³ /h)	26.1	26.5	107.2 kPaabs
Unit 2	Injecting freshwater (Feed Water System: Approx.3.0 m ³ /h, Core Spray System: Approx.6.8 m ³ /h)	47.6	50.9	109 kPaabs
Unit 3	Injecting freshwater (Feed Water System: Approx.2.9 m ³ /h, Core Spray System: Approx.5.9 m ³ /h)	45.0	53.4	101.6 kPaabs

[Unit 1] 9:53 on January 18: As variation in the injected water amount into the reactor was confirmed, we adjusted water injection from the reactor feed water system from approx 4.8 m³/h to 4.5 m³/h, and water injection from the core spray system from approx. 1.8 m³/h to 2.0 m³/h.

[Unit 2] 9:53 on January 18: As variation in the injected water amount into the reactor was confirmed, we adjusted water injection from the reactor feed water system from approx 2.4 m³/h to 3.0 m³/h, and water injection from the core spray system from approx. 7.5 m³/h to 7.0 m³/h.

[Unit 3] 9:43 on January 18: As the pump for Reactor water injection was switched to the reactor injection pump on the hill, we adjusted water injection from the reactor feed water system from approx 1.9 m³/h to 3.0 m³/h, and water injection from the core spray system from approx. 7.5 m³/h to 6.0 m³/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.
- 15:00 on January 18, 2012: The instrument to measure the concentration of radioactive materials in air continuously (continuous dust monitor), which is located in front of Main Anti-Earthquake Building, issue an alert.
- At 15:11 following the alert, based on the operation rule of full-face mask wearing, we instructed to wear the full-face masks. Later, we confirmed that there was no valid fluctuation on the value shown by the monitoring post.
- At 15:40 we replaced the filters of the measurement instrument, and rebooted the instrument by resetting. According to the result of manual measurement of radioactive materials in air in front of Main Anti-Earthquake Building, the concentration of radioactive materials in air at Main Anti-Earthquake Building was less than the detection level (the detection limit: 1.4×10^{-5} [Bq/cm³] and the value was less than the standard level to wear full-face masks (1×10^{-4} [Bq/cm³])).
- At 15:56 we announced to resume the normal operation which does not require to wear full-face masks.

End