Plant Status of Fukushima Daiichi Nuclear Power Station

January 22, 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 12:12 on January 16, 2012: we started the second cesium absorption apparatus. At 12:17, the flow rate reached steady state.

・At 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 1	・Unit 1T/B→Unit 2T/B	・Transferred from 15:37 on January 20 to 10:03 on January 22
Unit 2	・ Unit 2T/B→Central Radioactive Waste Treatment Facility [Process Main Building, Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	・14:33 on January 22 - Transferring※1
Unit 3	・ Unit 3T/B→Central Radioactive Waste Treatment Facility [Process Main Building, Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	・14:30 on January 22 - Transferring※2
Unit 6	・Unit 6T/B→Temporary tanks	・No plan to transfer on Jan 22

※1※2 In relation to water leakage from the flange of the hose of the transfer line from Turbine Building of Unit 2 and water seepage from the flange of the hose of the transfer line from Turbine Building of Unit 3 (both were confirmed on 21 January), the hoses were changed and inspection of leakage were conducted. Then, transfers of accumulated water were restarted. The cause of the leakage and seepage are estimated that shielding material over the hoses stressed the connection parts of the hose and they lost the sealing characteristics. As a result, it reached leakage. The shielding materials over the hoses were removed.

Place transferred	Status of Water Level (As of January 22 at 7:00)
Process Main Building	Water level: O.P.+ 3,965 mm(Accumulated total increase:5,182 mm), decrease 155mm from 7:00 am on January 21
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 1,991 mm(Accumulated total increase:2,717 mm), decrease 365mm from 7:00 am on January 21

◇Water level of the vertical shaft of the trench, T/B and R/B (As of January 22 at 7:00)

	Vertical Shaft of Trench	T/B	R/B
Unit 1	O.P. <+ 850 mm (No change since 7:00 on January 21)	O.P.+ 2,662 mm (378 mm decrease since 7:00 on January 21)	O.P.+ 4,241 mm (37 mm increase since 7:00 on January 21)
Unit 2	O.P.+ 3,198 mm (130 mm increase since 7:00 on January 21)	O.P.+ 3,160 mm (117 mm increase since 7:00 on January 21)	O.P.+ 3,308 mm (100 mm increase since 7:00 on January 21)
Unit 3	O.P.+ 3,087 mm (2 mm decrease since 7:00 on January 21)	O.P.+ 3,039 mm (31 mm increase since 7:00 on January 21)	O.P.+ 3,319 mm (22 mm increase since 7:00 on January 21)

Unit 4	—	O.P.+ 3,020 mm (12 mm decrease since 7:00 on January 21)	O.P.+ 3,041 mm (14 mm decrease since 7:00 on January 21)

<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	1/21	8:50	ND	0.06	0.06
Around 330 m south from discharge channel of 1-4U, 1F	1/21	8:30	ND	0.02	0.02
Around discharge channel of 3-4U, 2F	1/21	8:00	ND	0.04	0.03
Around 7 km south from discharge channel of 1-2U, 2F	1/21	7:40	ND	0.02	0.02

<Cooling of Spent Fuel Pools > (As of January 22 at 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
Unit 1	Circulating Cooling System	Under operation	17.5 ℃
Unit 2	Circulating Cooling System	Under operation	14.1 ℃
Unit 3	Circulating Cooling System	Under operation	13.6 ℃
Unit 4	Circulating Cooling System	Under operation	23℃

【Unit 2】 ・A desalination equipment has been activated in order to reduce density of salt from the spent fuel pool since 11:50 am on Jan 19, 2012.

【Unit 3】 ・A radioactive material removal equipment has been activated in order to remove radioactive materials from the spent fuel pool since 3:18 pm on Jan 14, 2012.

<Water Injection to Pressure Containment Vessels> (As of January 22 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.1.8 m^3/h)	26.4 ℃	26.8 ℃	106.2 kPaabs
Unit 2	Injecting freshwater (Feed Water System: Approx.6.0 m^3/h, Core Spray System: Approx.3.0 m^3/h)	47.2 ℃	49.9 ℃	110 kPaabs
Unit 3	Injecting freshwater (Feed Water System: Approx.5.1 m^3/h, Core Spray System: Approx.3.8m^3/h)	45.4 ℃	53.5 ℃	101.6 kPaabs

【Unit 2】 At 10:04 am on January 22: As the pump for Reactor water injection was switched to the reactor injection pump on the hill, we adjusted the amount of water injection from the core spray system from approx. 3.9 m^3/h to approx. 3.0 m^3/h. Injected amount from the reactor feed water system is still approx. 6.0 m^3/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.

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