Plant Status of Fukushima Daiichi Nuclear Power Station

January 13, 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]

・14:36 on January 4, 2012: We restarted the 2nd cesium adsorption facility. At 14:48, we reached the regular flow rate.

・15:22 on January 11, 2012: We actuated Cesium adsorption apparatus. At 15:30 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 21:55 on Jan 12 to 7:58 on Jan 13 ・Transferring from 14:46 on Jan 13
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 21:59 on Jan 12 to 8:03 on Jan 13 ・Transferring from 14:54 on Jan 13
Unit 6	・Unit 6 T/B→Temporary tanks	・1/12 No transfer

Transferring destination	Water level at transferring destination (as of 7:00 am on January 13)
Process Main Building	O.P.+4,340mm (cumulative elevation of water level:5,557mm), declined 25mm from 7:00 am on January 12
Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)	O.P.+2,843mm (cumulative elevation of water level:3,569mm), declined 272mm from 7:00 am on January 12

◇Water level of the vertical shaft of the trench, T/B and R/B(As of January 13 at 7:00)

	Vertical Shaft of Trench	T/B	R/B
Unit 1	O.P. <+ 850 mm (No change since 7:00 on January 12)	O.P.+ 3,165 mm (16 mm increase since 7:00 on January 12)	O.P.+ 4,198 mm (13 mm decrease since 7:00 on January 12)
Unit 2	O.P.+ 2,994 mm (21 mm increase since 7:00 on January 12)	O.P.+ 2,982 mm (18 mm decrease since 7:00 on January 12)	O.P.+ 3,140 mm (14 mm increase since 7:00 on January 12)
Unit 3	O.P.+ 3,142 mm (8 mm decrease since 7:00 on January 12)	O.P.+ 3,072 mm (No change since 7:00 on January 12)	O.P.+ 3,354 mm (1 mm decrease since 7:00 on January 12)

Unit 4	－	O.P.+ 3,088 mm (11 mm decrease since 7:00 on January 12)	O.P.+ 3,108 mm (11 mm decrease since 7:00 on January 12)

<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 12	8:35	ND	0.02	0.02
Around 330 m south from discharge channel of 1-4U, 1F	January 12	8:20	ND	0.02	0.02
Around discharge channel of 3-4U, 2F	January 12	8:25	ND	ND	0.01

・Others: Samples from one point at the coast (sampled on January 12) and 5 points at offshore of Fukushima Prefecture (sampled on January 11) showed ND for all three major nuclides (Iodine-131, Cs-134,137).

<Cooling of Spent Fuel Pools > (As of January 13 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	12.7 ℃
Unit 3	Circulating Cooling System	Under operation	13.5 ℃
Unit 4	Circulating Cooling System	Under operation	20 ℃

【Unit 3】・From 9:35 to 16:46 on Jan 12, we stopped the Unit 3 spent fuel pool alternative cooling system in order to install a radioactive materials removal equipment in the Unit 3 spent fuel pool. (Temperature of the spent fuel pool: at the time of the stoppage: approx. 12.7℃, after restart: 13.1℃)

【Unit 4】・From November 29, 2011, we actuated ion exchange apparatus in order to desalinate water in spent fuel pool.

< Water Injection to Pressure Containment Vessels > (As of January 13 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.4.4 m^3/h, Core Spray System: Approx.1.9 m^3/h)	25.2℃	25.7℃	106.0 kPaabs
Unit 2	Injecting freshwater (Feed Water System: Approx.2.6 m^3/h, Core Spray System: Approx.7.1 m^3/h)	47.3℃	48.6℃	109 kPaabs
Unit 3	Injecting freshwater (Feed Water System: Approx.0.4 m^3/h, Core Spray System: Approx.8.2 m^3/h)	45.3℃	54.8℃	101.6 kPaabs

【Unit 2】・11:20 on January 13:As variation in the injected water amount into the reactor was confirmed, we adjusted water injection from the reactor feed water system from approx 2.5 m^3/h to 3.0 m^3/h, and water injection from the core spray system from approx. 7.2 m^3/h to 7.0 m^3/h.

【Unit 3】・10:30 on January 12: We adjusted water injection from the reactor feed water system from approx 1.0 m^3/h to 0 m^3/h, and water injection from the core spray system from approx. 8.2 m^3/h to 9.0 m^3/h to replacement of the cooling system piping arrangement for the trial run of cooling system piping in Turbine Building.

・11:00 on January 12: After completion of the replacement, we adjusted water injection from the reactor feed water system from 0 m^3/h to 1.0 m^3/h, and water injection from the core spray system from approx. 9.0 m^3/h to 8.2 m^3/h.

・11:13 on January 13: After completion of the replacement, we adjusted water injection from the reactor

feed water system from approx. 0.5 m^3/h to 2.0 m^3/h, and water injection from the core spray system from approx. 8.3 m^3/h to 7.0 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
- 8:51～13:06 on January 13, 2012: We conducted dust sampling at the open part of Unit 2 Reactor Building (Blowout panel).
- January 13, 2012: We conducted sampling of the charcoal filter of Unit 2 PCV gas control system.

End