Plant Status of Fukushima Daiichi Nuclear Power Station

January 16, 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]

・15:22 on January 11, 2012: We actuated Cesium adsorption apparatus. At 15:30 the flow rate reached steady state.

・9:13 on January 16, 2012: we suspended the second cesium absorption apparatus due to reverse cleaning of the filters because the amount of disposal water of the second cesium absorption apparatus decreased gradually. After that, we restarted the apparatus at 12:12 on the same day. At 12:17 on the same day, the flow rate reached steady state. * From now, we will conduct scheduled cleaning of filters.

[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)]	・Transferring from 14:57 on Jan 15
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)]	・Transferring from 14:48 on Jan 15
Unit 6	・Unit 6 T/B→Temporary tanks	・Implementing transfer from 10:00 to 16:00 on Jan 16

Transferring destination	Water level at transferring destination (as of 7:00 am on January 16)
Process Main Building	O.P.+4,379 mm (cumulative elevation of water level:5,596 mm), increased 100mm from 7:00 am on January 15
Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)	O.P.+2,673 mm (cumulative elevation of water level:3,399 mm), increased 196 mm from 7:00 am on January 15

◇Water level of the vertical shaft of the trench, T/B and R/B(As of January 16 at 7:00)

	Vertical Shaft of Trench	T/B	R/B
Unit 1	O.P. <+ 850 mm (No change since 7:00 on January 15)	O.P.+ 3,215 mm (16 mm increase since 7:00 on January 15)	O.P.+ 4,184 mm (2 mm decrease since 7:00 on January 15)
Unit 2	O.P.+ 2,978 mm (52 mm decrease since 7:00 on January 15)	O.P.+ 2,966 mm (47 mm decrease since 7:00 on January 15)	O.P.+ 3,130 mm (28 mm decrease since 7:00 on January 15)
Unit 3	O.P.+ 3,112 mm (18 mm decrease since 7:00 on January 15)	O.P.+ 3,034 mm (54 mm decrease since 7:00 on January 15)	O.P.+ 3,317 mm (44 mm decrease since 7:00 on January 15)

Unit 4	—	O.P.+ 3,060 mm (5mm decrease since 7:00 on January 15)	O.P.+ 3,082 mm (4 mm decrease since 7:00 on January 15)

<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 15	8:40	ND	0.03	0.02
Around 330 m south from discharge channel of 1-4U, 1F	January 15	8:20	ND	ND	0.02
Around discharge channel of 3-4U, 2F	January 15	8:15	ND	0.02	0.01

・Others: Samples from one point at the coast (sampled on January 15) and from 1 point at offshore (sampled on January 14) of Fukushima showed ND for all three major nuclides (Iodine-131, Cs-134,137).

<Cooling of Spent Fuel Pools > (As of January 16 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	12.6 ℃
Unit 3	Circulating Cooling System	Under operation	12.7 ℃
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

【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 16 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.1.9 m^3/h)	24.7℃	25.0℃	106.6 kPaabs
Unit 2	Injecting freshwater (Feed Water System: Approx.2.7 m^3/h, Core Spray System: Approx.7.1 m^3/h)	47.7℃	49.7℃	109 kPaabs
Unit 3	Injecting freshwater (Feed Water System: Approx.1.9 m^3/h, Core Spray System: Approx.7.2 m^3/h)	44.6℃	53.9℃	101.6 kPaabs

【Unit 4】・At 17:26 on January 15, the decrease of injection water flow to the reactor was found so that water injection from Core Spray System was adjusted from approx. 1.8 m3/h to 2.0 m3/h (water injection from feed water system was remained unchanged as approx. 4.5 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

End