Plant Status of Fukushima Daiichi Nuclear Power Station

January 26, 2012

Tokyo Electric Power Company

<Draining the Water Accumulated under the Basement 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 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 21:42 on January 25 to 8:13 on January 26
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 21:53 on January 25 to 8:18 on January 26
Unit 6	・Unit 6T/B→Temporary tanks	・No Transferring planned

Place transferred	Status of Water Level (As of January 26 at 7:00)
Process Main Building	Water level: O.P.+ 4,029 mm(Accumulated total increase:5,246 mm), increased 298mm since 16:00 am on January 24*
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 2,797 mm(Accumulated total increase:3,523 mm), decreased 348mm since 7:00 am on January 25

* We have compared with the amount sampled at 16:00 on January 24, because no data was available at 7:00 on January 25 due to the camera trouble.

◇Water level of the vertical shaft of the trench, T/B and R/B (As of 7:00 on January 26)

	Vertical Shaft of Trench	T/B	R/B
Unit 1	O.P. <+ 850 mm (No change since 7:00 on January 25)	O.P.+ 2,683mm (16mm increase since 7:00 on January 25)	O.P.+ 4,282 mm (29 mm decrease since 7:00 on January 25)
Unit 2	O.P.+ 3,065 mm (10 mm increase since 7:00 on January 25)	O.P.+ 3,042 mm (10 mm increase since 7:00 on January 25)	O.P.+ 3,205mm (9 mm increase since 7:00 on January 25)
Unit 3	O.P.+ 3,056 mm (9 mm decrease since 7:00 on January 25)	O.P.+ 2,968 mm (6 mm decrease since 7:00 on January 25)	O.P.+ 3,264 mm (No change since 7:00 on January 25)
Unit 4	—	O.P.+ 2,993 mm (7 mm decrease since 7:00 on January 25)	O.P.+ 3,015 mm (11 mm decrease since 7:00 on January 25)

<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 6Us, 1F	1/25	8:40	ND	0.06	0.05
Around 330m south of the discharge channel of 1-4Us, 1F	1/25	8:20	ND	0.03	0.02
Near the discharge channel of 3 and 4Us, 2F	1/25	8:20	ND	ND	0.02

・ At the other 1 coastal point of Fukushima Prefecture (sampled on January 25), all the major 3 nuclides (I-131, Cs-134 and Cs-137) were ND.

<Cooling of Spent Fuel Pools > (As of January 26 at 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
Unit 1	Circulating Cooling System	Under operation	16.0 ℃
Unit 2	Circulating Cooling System	Under operation	12.9 ℃
Unit 3	Circulating Cooling System	Under operation	12.6 ℃
Unit 4	Circulating Cooling System	Under operation	22℃

【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】 ・Hydrazine (approx. 2m^3) was injected into SFP from 13:31 to 15:07 on January 26.

<Water Injection to Pressure Containment Vessels> (As of January 25 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.2.0 m^3/h)	24.0 ℃	24.3 ℃	106.2 kPaabs
Unit 2	Injecting freshwater (Feed Water System: Approx.8.6m^3/h, Core Spray System: Approx.0 m^3/h)	47.2 ℃	48.4 ℃	109 kPaabs
Unit 3	Injecting freshwater (Feed Water System: Approx.8.2m^3/h, Core Spray System: Approx.0.8 m^3/h)	45.0 ℃	53.9 ℃	101.6 kPaabs

【Unit 2】・At 17 :10 on January 25, regarding the reactor injection from the feed water system at the Unit 2, we changed the injection line from the pump located uphill to the T/B reactor injecting pump.

・At 9:47 on January 26, due to the change of injection duct owned by the pump located uphill, the volume from the feed water system increased from approx. 7.9m3/h to 8.7 m3/h, and the volume from the reactor core system decreased from approx. 1.0m^3/h to 0m^3/h.

・At 15:31 on January 26, as the replacement of the injection duct owned by the uphill pump was finished, we switched again from the pump in the T/B to the uphill pump regarding the feed water system injection.

・At 15:50 on January 26, the injection volume from the feed water system decreased from 8.7m^3/h to 8.0m^3/h, and the injection volume from the core spray system increased from 0m^3/h to 1. 0m^3/h

【Unit 3】・At 11:50 on January 26, as for the feed water injection to the nuclear reactor, an injection pump was changed from the one placed on the uphill to the one installed inside the T/B.

【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 25 Regarding the crack that was found on the running drive owned by a ceiling crane that handles with spent fuel casks etc. placed at the SFP building, we made sure there was no abnormalities and finished the rehabilitation work.

  * This was in response to the fact that on October 27, when a contracted company was conducting the annual checkup of a ceiling crane, which handles used fuel casks, a crack was found on the casing of the connection point of the vehicle for driving, after which we found that the damaged part was a crack that occurred at the gear coupling cover of the vehicle's running drive.
- January 25 We conducted sampling of the gas of the PCV gas management system of Unit 2. As a result of the analysis, we confirmed that at the entrance of the system Xenon 135 was below detection limit (1.1×10-1Bq/cm3), and below the re-criticality criterion which is 1Bq/cc.

End