Plant Status of Fukushima Daiichi Nuclear Power Station

January 27, 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 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 21:44 on January 26 to 8:14 on January 27
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 21:40 on January 26 to 8:10 on January 27
Unit 6	・Unit 6T/B→Temporary tanks	・No plan of transfer on January 27

Place transferred	Status of Water Level (As of January 27 at 7:00)
Process Main Building	Water level: O.P.+ 4,080 mm(Accumulated total increase:5,297 mm), increased 51mm since 7:00 am on January 26
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 2,585 mm(Accumulated total increase:3,311 mm), decreased 212mm since 7:00 am on January 26

◇Water level of the vertical shaft of the trench, T/B and R/B(As of January 27 at 7:00)

	Vertical Shaft of Trench	T/B	R/B
Unit 1	O.P. <+ 850 mm (No change since 7:00 on January 26)	O.P.+ 2,706 mm (23mm increase since 7:00 on January 26)	O.P.+ 4,255 mm (27mm decrease since 7:00 on January 26)
Unit 2	O.P.+ 3,074 mm (9mm increase since 7:00 on January 26)	O.P.+ 3,049 mm (7mm increase since 7:00 on January 26)	O.P.+ 3,213 mm (8mm increase since 7:00 on January 26)
Unit 3	O.P.+ 3,050 mm (6mm decrease since 7:00 on January 26)	O.P.+ 2,959 mm (9mm decrease since 7:00 on January 26)	O.P.+ 3,259 mm (5mm decrease since 7:00 on January 26)
Unit 4	－	O.P.+ 2,978 mm (15mm decrease since 7:00 on January 26)	O.P.+ 3,009 mm (6mm decrease since 7:00 on January 26)

<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 6Units, 1F	1/26	8:40	ND	ND	0.02
Around 330m south of the discharge channel of 1-4Units, 1F	1/26	8:20	ND	0.02	0.02
Near the discharge channel of 3 and 4Units, 2F	1/26	8:20	ND	ND	0.01
Around 7km south of the discharge channel of 1 and 2Units, 2F	1/26	8:00	ND	ND	0.02

・At the other 9 offshore points 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 27 at 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
Unit 1	Circulating Cooling System	Under operation	14.5 ℃
Unit 2	Circulating Cooling System	Under operation	12.7 ℃
Unit 3	Circulating Cooling System	Under operation	12.3 ℃
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.

<Water Injection to Pressure Containment Vessels >(As of January 27 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)	25.6 ℃	25.8 ℃	106.6 kPaabs
Unit 2	Injecting freshwater (Feed Water System: Approx.7.0 m^3/h,Core Spray System: Approx.2.0 m^3/h)	46.3 ℃	48.6 ℃	109 kPaabs
Unit 3	Injecting freshwater (Feed Water System: Approx.8.6 m^3/h,Core Spray System: Approx.0.0 m^3/h)	44.5 ℃	53.4 ℃	101.6 kPaabs

【Unit 2】・At 9:43 on January 27, the volume from the feed water system decreased from approx. 8.2 m^3/h to approx. 6.9 m^3/h, and the volume from the reactor core spray system increased from approx. 0.7 m^3/h to approx. 2.0 m^3/h.

【Unit 3】・At 9:14 on January 27, the volume from the feed water system increased from approx. 8.5 m^3/h to approx. 8.9 m^3/h, and the volume from the reactor core spray system decreased from approx. 1.0 m^3/h to 0 m^3/h.

・At 15:01 on January 27,because the replacing work of the water injection line of the reactor water injection pump on the hill was finished, regarding the water injection from the feed water system, we switched the pump from in the turbine building to on the hill again.

・At 3:11 pm on January 27, the volume from the feed water system increased from approx. 8.9 m^3/h to approx. 7.9 m^3/h, and the volume from the reactor core spray system decreased from 0 m^3/h to approx. 1.0m^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.
- January 27, 2012 : At around 11:20 am, the subcontractor employees who were patrolling at that time found the leakage at the flange of the pure water piping between the Solid Waste Storage and the Regular Inspection Material Storage, which is approx. 0.5 liter/min. At around 1:28 pm, After retightening, we confirmed that the leakage stopped. In addition, the leakage water was pure water (The radiation dose in ambient air near the leaking point was not different from surrounding area). Because there was no drain around there, it is considered that there was no leakage to the ocean.

End