Plant Status of Fukushima Daiichi Nuclear Power Station

December 25, 2011
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]

・6/17 20:00 Full operation of radioactive material removal instruments started.
・6/24 12:00 Desalination facilities operation started.
・6/27 16:20 Circulating injection cooling started.
・8/7 16:11 Evaporative Concentration Facility has started full operation.
・8/19 19:33 We activated 2nd cesium adsorption facility (System B) and started the treatment of accumulated water by the parallel operation of cesium adsorption instrument and decontamination instrument. At 19:41, the flow rate achieved a steady state.

[Storage Facility]

・6/8～ 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	・16:07 on December 23 – 9:38 on December 25 – Transferred.
Unit 2	・Unit 2T/B→Central Radioactive Waste Treatment Facility［Process Main Building、Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)］	・13:57 on December 21- 9:42 December 23 -Transferred
Unit 3	・Unit 3T/B→Central Radioactive Waste Treatment Facility［Process Main Building、Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)］	・14:35 on December 24 -Transferring
Unit 6	・Unit 6T/B→Temporary tanks	・12/25 No plan of transfer

Place transferred	Status of Water Level (As of December 25 at 7:00)
Process Main Building	Water level: O.P.+ 2,031 mm(Accumulated total increase: 3,248 mm) 15mm increase since 7:00 on December 24
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 2,634 mm(Accumulated total increase: 3,360 mm) 503mm increase since 7:00 on December 24

◇Water level of the vertical shaft of the trench, T/B and R/B(As of December 25 at 7:00)

	Vertical Shaft of Trench	T/B	R/B
Unit 1	O.P.< + 850 mm (No change since 7:00 on December 24)	O.P.+ 2,807 mm (371mm decrease since 7:00 on December 24)	O.P.+ 4,232 mm (9mm increase since 7:00 on December 24)
Unit 2	O.P.+ 3,148 mm (114mm increase since 7:00 on	O.P.+ 3,130 mm (100mm increase since 7:00 on December 24)	O.P.+ 3,250 mm (99mm increase since 7:00 on December 24)

	December 24)		
Unit 3	O.P.+ 3,206 mm (22mm decrease since 7:00 on December 24)	O.P.+ 3,145 mm (59mm decrease since 7:00 on December 24)	O.P.+ 3,406 mm (47mm decrease since 7:00 on December 24)
Unit 4	—	O.P.+ 3,162 mm (18mm decrease since 7:00 on December 24)	O.P.+ 3,184 mm (1mm decrease since 7:00 on December 24)

<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
Approx. 30m North of Discharge Channel of 5,6U, 1F	12/24	8:30	ND	0.07	0.06
Approx. 330m South of Discharge Channel of 1-4U, 1F	12/24	8:10	ND	0.02	0.03
Around Iwasawa coast, 2F (Approx. 16 km from 1F)	12/24	7:45	ND	ND	0.01

・Others: samples from 1 location at the coast of Fukushima Daiichi Nuclear Power Plant (sampled on December 24) showed ND for all three major nuclides (Iodine-131, Cs-134,137).

<Cooling of Spent Fuel Pools> (As of December 25 at 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
Unit 1	Circulating Cooling System	Under operation	11.0℃
Unit 2	Circulating Cooling System	Under operation	18.3℃
Unit 3	Circulating Cooling System	Under operation	12.8℃
Unit 4	Circulating Cooling System	Under operation	20℃

【Unit 4】・11/29～ We started operation of the ion exchange equipment to remove salt from spent fuel pool.

< Water Injection to Pressure Containment Vessels > (As of December 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. 4.3 m^3/h, Core Spray System: Approx. 2.0m^3/h)	28.2℃	29.0℃	105.3 kPaabs
Unit 2	Injecting freshwater※ (Feed Water System: Approx. 2.8 m^3/h, Core Spray System: Approx. 6.0m^3/h)	57.0℃	59.9℃	109 kPaabs
Unit 3	Injecting freshwater (Feed Water System: Approx. 3.0 m^3/h, Core Spray System: Approx. 6.0 m^3/h)	51.3℃	59.3℃	101.6 kPaabs

【Unit 4】【Unit 5】【Unit 6】・No major change

<Others>

・10/7～ 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.

End