Plant Status of Fukushima Daiichi Nuclear Power Station

December 15, 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 Start of desalination facilities operation
・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 2	・Unit 2T/B→Central Radioactive Waste Treatment Facility［Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)］	・18:03 on November 30 -12/13 7:51 Transferring
Unit 3	・Unit 3T/B→Central Radioactive Waste Treatment Facility［Process Main Building］	・14:22 on December 15 Transferring
Unit 6	・Unit 6T/B→Temporary tanks	・10:00 on December 15 Transferring

Place transferred	Status of Water Level (As of 12/15 at 7:00)
Process Main Building	Water level: O.P.+ 1,398 mm(Accumulated total increase:2,615 mm) 109mm decrease since 7:00 on December 14
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 1,554 mm(Accumulated total increase:2,280 mm) 2mm increase since 7:00 on December 14

・12/12 9:30 We started transferring of the accumulated water in the condensate storage tank of Unit 3 to the basement of Turbine Building of Unit 3 before feeding water to reduce salt level in the tank. After that we confirmed decrease of transferring quantity of water from the water level fluctuation, at 0:00 pm on December 14, we stopped transferring of the accumulated water in the tank. Also we confirmed that there was no water leakage at the site. Currently we are investigating the cause.
・12/15 12:30 We conducted flushing of the piping and restarted transferring. It is assumed that the clogging of the piping caused it because no abnormality was found on the transferring water volume after the flushing.

◇Water level of the vertical shaft of the trench, T/B and R/B(As of December 15 at 7:00)

	Vertical Shaft of Trench	T/B	R/B
Unit 1	O.P. <+ 850 mm (No change since 7:00 on December 14)	O.P.+ 3,163 mm (32mm increase since 7:00 on December 14)	O.P.+ 4,110 mm (75mm increase since 7:00 on December 14)

Unit 2	O.P.+ 2,905 mm (57mm increase since 7:00 on December 14)	O.P.+ 2,914 mm (49mm increase since 7:00 on December 14)	O.P.+ 3,039 mm (54mm increase since 7:00 on December 14)
Unit 3	O.P.+ 3,154 mm (18mm increase since 7:00 on December 14)	O.P.+ 3,126 mm (20mm increase since 7:00 on December 14)	O.P.+ 3,360 mm (20mm increase since 7:00 on December 14)
Unit 4	—	O.P.+ 3,105 mm (16mm increase since 7:00 on December 14)	O.P.+ 3,117 mm (33mm increase since 7:00 on December 14)

<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	12/14	9:00	ND	0.05	0.04
Approx. 330m South of Discharge Channel of 1-4U, 1F	12/14	8:40	ND	0.03	0.02
Around Discharge Channel of 3,4U, 2F	12/14	8:20	ND	0.01	0.01
Approx. 7km South of Discharge Channel of 1,2U, 2F	12/14	7:55	ND	ND	0.01

・Others, sample from 1 location at offshore of Fukushima Daiichi Nuclear Power Station (sampled on December 13) showed ND for all three major nuclides (Iodine-131、Cs-134,137).

<Cooling of Spent Fuel Pools >(As of December 15 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	18.3 ℃
Unit 3	Circulating Cooling System	Under operation	15.2 ℃
Unit 4	Circulating Cooling System	Under operation	22.0 ℃

【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 15 at 11:00)

Unit	Status of injecting water	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.1.6 m^3/h)	37.6℃	38.1℃	109.4 kPaabs
Unit 2	Injecting freshwater (Feed Water System: Approx.2.9 m^3/h,Core Spray System: Approx.5.9 m^3/h)	64.2℃	67.8℃	112.0 kPaabs
Unit 3	Injecting freshwater (Feed Water System: Approx.2.7 m^3/h,Core Spray System: Approx.6.0 m^3/h)	57.2℃	63.8℃	101.5 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.

- 12/15 We conducted sampling by a vial container at gas control system of the Primary Containment Vessel of Unit 2.

End