Plant Status of Fukushima Daiichi Nuclear Power Station

December 8, 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 - Transferring
Unit 3	・Unit 3T/B→Central Radioactive Waste Treatment Facility [Process Main Building]	・9:25 on November 15 -12/5 10:31
Unit 6	・Unit 6T/B→Temporary tanks	・10:00 on December 8 -Transferring

Place transferred	Status of Water Level (As of December 8 at 7:00)
Process Main Building	Water level: O.P.+ 2,143 mm(Accumulated total increase:3,360 mm) 110mm decrease since 7:00 on December 7
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 1,265 mm(Accumulated total increase:1,991 mm) 77mm decrease since 7:00 on December 7

◇Water level of the vertical shaft of the trench, T/B and R/B(As of December 8 at 7:00)

	Vertical Shaft of Trench	T/B	R/B
Unit 1	O.P.< + 850mm (No change since 7:00 on December 7)	O.P.+ 3,635 mm (34mm increase since 7:00 on December 7)	O.P.+ 4,067 mm (15mm decrease since 7:00 on December 7)
Unit 2	O.P.+ 2,842 mm (20mm decrease since 7:00 on December 7)	O.P.+ 2,860 mm (20mm decrease since 7:00 on December 7)	O.P.+ 2,990 mm (18mm decrease since 7:00 on December 7)
Unit 3	O.P.+ 3,234 mm (17mm increase since 7:00 on December 7)	O.P.+ 2,999 mm (16mm increase since 7:00 on December 7)	O.P.+ 3,221 mm (18mm increase since 7:00 on December 7)
Unit 4	―	O.P.+ 2,985 mm (13mm increase since 7:00 on December 7)	O.P.+ 2,990 mm (3mm increase since 7:00 on December 7)

<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	12/7	8:50	ND	0.08	0.06
Approx. 330m South of Discharge Channel of 1-4U, 1F	12/7	8:35	ND	0.08	0.06
Approx. 7km South of Discharge Channel of 1,2U, 2F	12/7	8:00	ND	0.02	0.01

・・Others, samples from 1 location at the Fukushima Daiichi Nuclear Power Station coast (sampled on December 7), and 8 locations at the Offshore (sampled on December 6) showed ND for all three major nuclides (Iodine-131、Cs-134,137).

<Cooling of Spent Fuel Pools> (As of December 8 at 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
Unit 1	Circulating Cooling System	Under operation(11:22 on August 10 -)	15.5 ℃
Unit 2	Circulating Cooling System	Shut down(4:17 on December 7 -)	23.1 ℃
Unit 3	Circulating Cooling System	Under operation(18:33 on June 30 -)	16.2 ℃
Unit 4	Circulating Cooling System	Under operation(10:08 on July 31 -)	23 ℃

【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 8 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. 4.3 m^3/h)	43.5℃	44.6℃	118.5 kPaabs
Unit 2	Injecting freshwater (Feed Water System: Approx. 3.0 m^3/h,Core Spray System: Approx. 4.1 m^3/h)	71.4℃	70.8℃	115 kPaabs
Unit 3	Injecting freshwater (Feed Water System: Approx. 2.0 m^3/h,Core Spr System: Approx. 6.0 m^3/h)	60.2℃	66.9℃	101.6 kPaabs

【Unit 1】・12/7 As a part of installation work of the Primary Containment Vessel Gas Management System in the Unit 1 reactor building, we conducted nitrogen substitution in order to eliminate hydrogen in the existing pipe arrangement to be used in the system.

・12/8 10:29 The test operation of the Primary Containment Vessel Gas Management System started.

【Unit 4】【Unit 5】【Unit 6】No particular changes in parameters.

<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