Plant Status of Fukushima Daiichi Nuclear Power Station

November 12, 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 (RO membrane system)
・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 second 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 steady state.

[Storage Facility]

・6/8～ Big 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	・From 15:42 on November 11~ Being transferred
Unit 2	・Unit 2T/B→Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)]	・From 9:10 on November 10 ~ Being transferred
Unit 3	・Unit 3T/B→Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	・From 10:11 on November 2 to 15:05 on November 8 Transferred
Unit 6	・Unit 6T/B→Temporary tanks	・On November 12 No transfer

Place transferred	Status of Water Level (As of November 12 at 7:00)
Process Main Building	Water level: O.P.+ 1,780 mm(Accumulated total increase:2,997 mm) 118mm decrease since 7:00 on November 11
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 2,259 mm(Accumulated total increase:2,985 mm) 50mm decrease since 7:00 on November 11

□Water level of the vertical shaft of the trench, T/B and R/B (As of November 12 at 7:00)

	Vertical Shaft of Trench	T/B	R/B
Unit 1	O.P.< + 850 mm (No change since 7:00 on November 11)	O.P.+ 3,765 mm (203mm decrease since 7:00 on November 11)	O.P.+ 4,627 mm (24mm increase since 7:00 on November 11)
Unit 2	O.P.+ 3,131 mm (20mm increase since 7:00 on November 11)	O.P.+ 3,140 mm (19mm increase since 7:00 on November 11)	O.P.+ 3,231 mm (18mm increase since 7:00 on November 11)
Unit 3	O.P.+ 3,259 mm (21mm increase since 7:00 on November 11)	O.P.+ 3,053 mm (23mm increase since 7:00 on November 11)	O.P.+ 3,245 mm (24mm increase since 7:00 on November 11)

Unit 4	—	O.P.+ 3,036 mm (12mm increase since 7:00 on November 11)	O.P.+ 3,050 mm (17mm increase since 7:00 on November 11)

<Monitoring of Radioactive Materials>

Nuclide Analysis of Seawater (Reference) □Since Oct 24, an approach to decrease the detection limits of radioactivity density was started.

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 of 1F	11/11	8:45	ND	0.11	0.07
Approx 330m South of Discharge Channel of 1-4u of 1F	11/11	8:20	ND	0.03	0.01
Around Discharge Channel of 3-4u of 2F	11/11	8:20	ND	0.02	0.02
Approx 7km South of Discharge Channel of 1-2u of 2F	11/11	7:55	ND	ND	0.01

・Results of nuclide analysis of seawater at 5 offshore points sampled on November 10 are all ND for the 3 major nuclides (iodine-131, cesium-134 and cesium-137).

<Cooling of Spent Fuel Pools> (As of November 12 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 -)	19.5 ℃
Unit 2	Circulating Cooling System	Under operation(17:21 on May 31 -)	21.4 ℃
Unit 3	Circulating Cooling System	Under operation(18:33 on June 30 -)	20.7 ℃
Unit 4	Circulating Cooling System	Under operation(10:08 on July 31 -)	29 ℃

【Unit 2】・11/6～ We started operation of radioactive material decontamination instrument of spent fuel pool.
・11/12 10:30～12:05 We temporarily stopped the operation of radioactive material decontamination instrument in order to replace adsorption instruments, keeping cooling spent fuel pools. We will appropriately replace adsorption instruments.

【Unit 4】・8/20～11/8 We implemented the operation of desalinating facility of the spent fuel pool.

<Water Injection to Pressure Containment Vessels> (As of November 12 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. 7.8 m^3/h)	38.0℃	38.7℃	121.7 kPaabs
Unit 2	Injecting freshwater (Feed Water System: Approx. 2.9 m^3/h,Core Spray System: Approx. 7.2 m^3/h)	66.2℃	69.5℃	109 kPaabs
Unit 3	Injecting freshwater (Feed Water System: Approx. 2.7 m^3/h,Core Spr System: Approx. 8.1 m^3/h)	59.1℃	69.0℃	101.5 kPaabs

【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.