

Plant Status of Fukushima Daiichi Nuclear Power Station

October 24, 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 started.
- 6/24 12:00 Treatment started at desalination facilities
- 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.
- 10/19 21:06 In the Water Treatment Facility under operation, a SMZ pump of the 4th process line of cesium adsorption apparatus automatically stopped. Water treatment by the cesium adsorption apparatus is continuously operated at the flow rate approx. 17m³/h.
- 10/24 11:30 As water leakage (about 20 liters) from the shaft seal part of the Raw Water Pump for 2-1 skid, which is the part of the desalination instrument 2 (RO membrane type), was found, the instrument was shutdown. Afterward, the water leakage was confirmed to be stopped.

[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	· 10:35 on October 22 to 9:07 on October 24 – Transferred
Unit 2	· Unit 2T/B Central Radioactive Waste Treatment Facility [Process Main Building]	· 10:12 on October 20 -Transferring *9:18 to 9:34 on October 24, the transfer was temporary stopped due to switching work of pumps.
Unit 3	· Unit 3T/B Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)]	· 10:00 on October 20 -Transferring
Unit 6	· Unit 6T/B Temporary tanks	· October 24 - No plan of transfer
	· Temporary tanks Mega float	· 10:00 to 11:30 on October 24, transferred

Place transferred	Status of Water Level (As of October 24 at 7:00)
Process Main Building	Water level: O.P.+ 3,426 mm(Accumulated total increase:4,643 mm) 279mm increased since 7:00 on October 23
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 2,504 mm(Accumulated total increase:3,230 mm) 87mm increased since 7:00 on October 23

Water level of the vertical shaft of the trench, T/B and R/B(As of October 24 at 7:00)

	Vertical Shaft of Trench	T/B	R/B
Unit 1	O.P.+ 850 mm (No change since 7:00 on October 23)	O.P.+ 4,188 mm (268mm decrease since 7:00 on October 23)	O.P.+ 4,406 mm (41mm decrease since 7:00 on October 23)
Unit 2	O.P.+ 2,881 mm (40mm decrease since 7:00 on October 23)	O.P.+ 2,913 mm (40mm decrease since 7:00 on October 23)	O.P.+ 3,009 mm (30mm decrease since 7:00 on October 23)
Unit 3	O.P.+ 3,206 mm (8mm decrease since 7:00 on October 23)	O.P.+ 2,966 mm (13mm decrease since 7:00 on October 23)	O.P.+ 3,134 mm (11mm decrease since 7:00 on October 23)
Unit 4	-	O.P.+ 3,005 mm (14mm decrease since 7:00 on October 23)	O.P.+ 3,031 mm (8mm decrease since 7:00 on October 23)

<Monitoring of Radioactive Materials>

Nuclide Analysis of Seawater (Reference)

- Results of nuclide analysis of seawater, sampled on October 23 at 4 points around the Fukushima coastal area were all ND for the 3 major nuclides (iodine-131, cesium-134 and cesium-137).

<Cooling of Spent Fuel Pools> (As of October 24 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 -)	25.5
Unit 2	Circulating Cooling System	Under operation (17:21 on May 31 -)	29.0
Unit 3	Circulating Cooling System	Under operation (18:33 on June 30 -)	27.5
Unit 4	Circulating Cooling System	Under operation (10:08 on July 31 -)	36

[Unit 4] 8/20 ~ We started operation of desalinating facility of the spent fuel pool.

<Water Injection to Pressure Containment Vessels> (As of October 24 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. 3.7 m ³ /h)	69.9	71.9	120.4 kPaabs
Unit 2	Injecting freshwater (Feed Water System: Approx. 3.1 m ³ /h, Core Spray System: Approx. 7.0 m ³ /h)	74.2	79.5	123 kPaabs
Unit 3	Injecting freshwater (Feed Water System: Approx. 2.1 m ³ /h, Core Spray System: Approx. 8.1 m ³ /h)	68.8	71.8	101.5 kPaabs

[Unit 4] [Unit 5] [Unit 6] No particular changes in parameters.

<Others>

- 4/10 ~ Clearance of outdoor rubbles by remote control to improve working conditions.
- 6/28 ~ Main construction work for installing the cover for the reactor building of Unit 1
- 8/10 ~ 9/9 Implemented setting up iron framework of the cover for the reactor building of Unit 1
- 9/10 ~ 10/14 Implemented installation of panels of the cover for the reactor building of Unit 1

- 10/15 ~ Continuously implementing the relating work for the installation of the cover for the reactor building of Unit 1.
- 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