

Plant Status of Fukushima Daiichi Nuclear Power Station

October 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 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 11:33 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. At 2:30 pm on the same day, we stopped the line connecting to the water pump and started other water desalinations. At 4:20 pm, the rated flow reached 50 m³/h.

[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
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 25 - No plan of transfer
	·Temporary tanks Mega float	·10:00 to 11:30 on October 25, transferred

Place transferred	Status of Water Level (As of October 25 at 7:00)
Process Main Building	Water level: O.P.+ 3,505 mm(Accumulated total increase:4,722 mm) 79mm increased since 7:00 on October 24
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator)	Water level: O.P.+ 2,423 mm(Accumulated total increase:3,149 mm) 81mm decreased since 7:00 on October 24

Building)	
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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 24)	O.P.+ 4,245 mm (57mm increase since 7:00 on October 24)	O.P.+ 4,359 mm (47mm decrease since 7:00 on October 24)
Unit 2	O.P.+ 2,867 mm (14mm decrease since 7:00 on October 24)	O.P.+ 2,901 mm (12mm decrease since 7:00 on October 24)	O.P.+ 2,991 mm (18mm decrease since 7:00 on October 18)
Unit 3	O.P.+ 3,197 mm (9mm decrease since 7:00 on October 24)	O.P.+ 2,955 mm (11mm decrease since 7:00 on October 24)	O.P.+ 3,123 mm (11mm decrease since 7:00 on October 24)
Unit 4	-	O.P.+ 2,996 mm (9mm decrease since 7:00 on October 24)	O.P.+ 3,023 mm (8mm decrease since 7:00 on October 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 of 1F	10/24	8:40	ND	0.06	0.06
Approx. 330m South of Discharge Channel of 1-4U of 1F	10/24	8:20	ND	0.03	0.03

- Results of nuclide analysis of seawater, sampled on October 24 at 3 points around the Fukushima coastal area are all ND for the 3 major nuclides (iodine-131, cesium-134 and cesium-137).

<Cooling of Spent Fuel Pools> (As of October 25*)

*Since data collection was not available due to the internal power line switch, we described the latest data.

Unit	Cooling type	Status of cooling	Temperature of water in Pool
Unit 1	Circulating Cooling System	Under operation (11:22 on August 10 -)	24.5 * as of 8:00
Unit 2	Circulating Cooling System	Under operation (17:21 on May 31 -)	29.0 * as of 9:00
Unit 3	Circulating Cooling System	Under operation (18:33 on June 30 -)	27.1 * as of 10:00
Unit 4	Circulating Cooling System	Under operation (10:08 on July 31 -)	35 * as of 11:00

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

<Water Injection to Pressure Containment Vessels> (As of October 25*)

*Since data collection was not available due to the internal power line switch, we described the latest data.

Unit	Status of injecting water	Feed-water nozzle Temp.	Reactor pressure vessel Bottom temp.	Pressure of primary containment vessel
Unit 1 *as of 9:00	Injecting freshwater (Feed Water System: Approx. 3.5 m ³ /h)	69.5	71.5	119.1 kPaabs

Unit 2 *as of 9:00	Injecting freshwater (Feed Water System: Approx. 3.1 m ³ /h,Core Spray System: Approx. 7.2 m ³ /h)	73.6	78.5	123 kPaabs
Unit 3 *as of 10:00	Injecting freshwater (Feed Water System: Approx. 2.0 m ³ /h,Core Spray System: Approx. 8.1 m ³ /h)	68.2	71.4	101.5 kPaabs

[Unit 1] At 14:22 on October 25, we adjusted the injection volume at approx. 3.8 m³/h to the reactor.

[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.
- 10/23 at around 14:00 TEPCO's employee found seemingly oil spill outside the oil retaining wall of temporary oil tank for main transformer in the power plant premise (Wild Birds' Forest).
- 10/24 at around 14:00 We confirmed at the site that there were oil film in the water accumulated in the oil retaining wall and the oil was accumulated in the space which the water in the oil retaining wall spilled. From these reasons, we assumed that the oil observed on October 23 was the oil which spilled from the oil retaining wall by inflow of rain water to the wall. At this moment, we are investigating in detail, including nuclide analysis for the water accumulated in the wall and analysis on the oil film.
- 10/25 10:31 ~ 11:31 We conducted dust sampling at the opening (blowout panel) of the reactor building of Unit 2.
- 10/25 11:31 ~ 12:31 We conducted dust sampling at the opening for the equipment hatch in the reactor building of Unit 1.

End