

Plant Status of Fukushima Daiichi Nuclear Power Station

September 26, 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.
- 9/24 20:30 The second Cesium adsorption facility has automatically shut down.
- 9/25 17:02 As a result of survey, inlet valves were closed due to the trouble of compressor which supply control air to valves. After replacing the compressor, the facility was restarted. At 17:05, it has reached to normal flow rate.

[Storage Facility]

From June 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
2u	·2u Vertical Shaft of Trench → Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	·9/13 9:51 ~ Transferring
3u	·3u T/B Central Radioactive Waste Treatment Facility [Process Main Building]	·9/15 9:54 ~ Transferring
6u	·6u T/B → temporary tanks	·9/26 10:00 ~ Transferring

Transfer to:	Status of Water Level (as of 7:00 on 9/26)
Process Main Building	Water level: O.P.+ 4,564 mm (Accumulated total increase: 5,781mm) 20 mm increase from 9/25 7:00
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 2,539 mm (Accumulated total increase: 3,265mm) 114 mm increase from 9/25 7:00

Water level at the vertical shaft of the trench and T/B (as of 9/26 7:00)

	Vertical Shaft of Trench	T/B	R/B
1u	O.P. <+850mm (No change since 9/25 7:00)	O.P. +5,063mm (32mm decrease since 9/25 7:00)	O.P. +5,116mm (21mm decrease since 9/25 7:00)
2u	O.P. +2,781mm (7mm increase since 9/25 7:00)	O.P. +2,835mm (4mm increase since 9/25 7:00)	O.P. +2,894mm (1mm decrease since 9/25 7:00)
3u	O.P. +3,281mm (2mm decrease since 9/25 7:00)	O.P. +3,058mm (3mm decrease since 9/25 7:00)	O.P. +3,169mm (2mm increase since 9/25 7:00)
4u	-	O.P. +3,101mm (6mm decrease since 9/25 7:00)	O.P. +3,115mm (No change since 9/25 7:00)

<Monitoring of Radioactive Materials>

Nuclide Analysis of Seawater (Reference)

*Results of nuclide analysis of seawater, sampled on September 25 at 4 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 9/26 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
1u	Circulating Cooling System	Operating from 8/10 11:22	25.0
2u	Circulating Cooling System	Operating from 5/31 17:21	27.0
3u	Circulating Cooling System	Operating from 6/30 18:33	26.4
4u	Circulating Cooling System	Operating from 7/31 10:08	35

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

<Water Injection to Pressure Containment Vessels> (as of 9/26 11:00)

Unit	Status of injecting water	Temp. of feed-water nozzle	Bottom of reactor pressure vessel	Pressure of Primary Containment Vessel
1u	Injecting freshwater (approx. 3.6m ³ /h)	76.1	78.1	123.9 kPaabs
2u	Injecting freshwater (Feed Water System: approx. 3.8m ³ /h CS System: approx. 5.1 m ³ /h)	95.1	104.0	109 kPaabs
3u	Injecting freshwater (Feed Water System: approx. 2.7m ³ /h CS System: approx. 7.9 m ³ /h)	76.5	81.5	101.5 kPaabs

[Unit 2] 9/26 15:05 The amount of water injection from the core spray system into the reactor was adjusted from approx. 5.0 m³/h to approx. 6.0 m³/h.

The amount of water injection from the reactor feed water system is kept at approx. 3.8 m³/h.

[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.
- 6/3 ~ Restoration works of port related facilities has been under operation.
- 7/12~ Construction work of installing steel pipe sheet pile against water leakage in the water intake channel.
- 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 Installment of wall panel for cover of reactor building of Unit1 started.
- 9/26 9:45am-10:42am In order to repair the outlet valve of Unit 5 residual heat removal system seawater pump (D), we switched the seawater pump from B system (permanently installed) to A system (temporarily installed).
- 9/26 around 11:05am One of the staff from the cooperating companies was injured catching his forth finger between the steel stocks in site of the power plant (outdoors) at 11:05 am, September 26. The staff returned to the office outside the site and headed for the emergency medical office with a surgical mask on. We are planning to conduct a measurement with a whole body counter, because the possibility of radioactive materials intake cannot be denied. Contamination on the surface of the body and the surgical mask is not detected.

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