

Plant Status of Fukushima Daiichi Nuclear Power Station

September 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.
- 9/21 20:50 A door of the large tent where water desalination equipment (reverse osmosis membrane type) (3) is installed malfunctioned and was subject to an inrush of rainwater due to the typhoon. In response, operations of this equipment have been ceased.
- 9/24 9:42 Inside of a tent was dried by opening a door of the large tent, and the water desalination equipment (reverse osmosis membrane type) (3) was restarted.

[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	·9/24 10:00 ~ 16:00 Transferred

Transfer to:	Status of Water Level (as of 7:00 on 9/24)
Process Main Building	Water level: O.P.+ 4,530 mm (Accumulated total increase: 5,747mm) 7 mm increase from 9/23 7:00
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 2,192 mm (Accumulated total increase: 2,918mm) 301 mm increase from 9/23 7:00

Water level at the vertical shaft of the trench and T/B (as of 9/24 7:00)

	Vertical Shaft of Trench	T/B	R/B
1u	O.P. <+850mm (No change since 9/23 7:00)	O.P. +5,115mm (3mm decrease since 9/23 7:00)	O.P. +5,161mm (25 mm decrease since 9/23 7:00)
2u	O.P. +2,822mm (50mm decrease since 9/23 7:00)	O.P. +2,876mm (47mm decrease since 9/23 7:00)	O.P. +2,929mm (47 mm decrease since 9/23 15:30)
3u	O.P. +3,282mm (3mm increase since 9/23 7:00)	O.P. +3,060mm (4mm increase since 9/23 7:00)	O.P. +3,167mm (8 mm increase since 9/23 7:00)
4u	-	O.P. +3,104mm (15mm increase since 9/23 16:00)	O.P. +3,113mm (11 mm increase since 9/23 7:00)

Due to the increase of water level at T/B, we monitored the water level at the Decannulation area at the basement of T/B instead.

<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	9/23	10:15	ND	0.10	ND

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

<Cooling of Spent Fuel Pools> (as of 9/24 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
1u	Circulating Cooling System	Operating from 8/10 11:22	26.0
2u	Circulating Cooling System	Operating from 5/31 17:21	29.0
3u	Circulating Cooling System	Operating from 6/30 18:33	27.4
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 9/24 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)	76.0	78.0	123.2 kPaabs
2u	Injecting freshwater (Feed Water System: approx. 3.9m ³ /h CS System: approx. 5.0 m ³ /h)	96.7	106.5	106 kPaabs
3u	Injecting freshwater (Feed Water System: approx. 2.8m ³ /h CS System: approx. 7.9 m ³ /h)	77.2	82.1	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.
- 6/3 ~ 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.

END