

Plant Status of Fukushima Daiichi Nuclear Power Station

September 30, 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.
- 9/29 10:45 We stopped the desalination instrument (RO type) (2) as water leakage from the flange connection of transferring horse of concentrated water side was confirmed
- 11:40 We restarted the instrument by using another system different from the one that leaked of the 2 systems of process lines.
- 9/30 11:27 We switched the end flange which leaked and restored the system that leaked. We restarted the operation of two systems.
- 9/30 14:19 The cesium adsorption instruments stopped automatically due to the overload of transfer pump for oil separator.

[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 ~ 9/30 9:46 Transferred
	·3u T/B Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)]	·9/30 10:00 ~ Transferring
6u	·6u T/B → temporary tanks	·9/30 10:00 ~ 16:00 Transferred

Transfer to:	Status of Water Level (as of 7:00 on 9/30)
Process Main Building	Water level : O.P.+ 4,649 mm (Accumulated total increase : 5,866 mm) 11 mm increase from 9/29 7:00
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level : O.P.+ 1,816mm (Accumulated total increase : 2,542 mm) 36 mm decrease from 9/29 7:00

Water level at the vertical shaft of the trench and T/B (as of 9/30 7:00)

	Vertical Shaft of Trench	T/B	R/B
1u	O.P. <+850mm (No change since 9/29 7:00)	O.P. +4,952mm (No change since 9/29 7:00)	O.P. +4,811mm (173mm decrease since 9/29 7:00)
2u	O.P. +2,776mm (8mm decrease since 9/29 7:00)	O.P. +2,829mm (9mm decrease since 9/29 7:00)	O.P. +2,897mm (5mm decrease since 9/29 7:00)
3u	O.P. +3,267mm * (6mm decrease since 9/29 11:00)	O.P. +3,039mm (6mm decrease since 9/29 7:00)	O.P. +3,165mm (2mm decrease since 9/29 7:00)

4u	-	O.P. +3,085mm (No change since 9/29 7:00)	O.P. +3,099mm (5mm decrease since 9/29 7:00)
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As of 15:40 on Sep. 29. (Due to communication error, data was acquired at the site.)

<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	9/29	10:15	ND	0.18	ND

*Results of nuclide analysis of seawater, sampled on September 29 at 3 points around the coastal area in Fukushima, sampled from September 27 to September 29 at 3 points around the coastal area in Ibaraki and sampled on September 27 at 6 points around the coastal area in Miyazaki are all ND for the 3 major nuclides (iodine-131, cesium-134 and cesium-137).

<Cooling of Spent Fuel Pools> (as of 9/30 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
1u	Circulating Cooling System	Operating from 8/10 11:22	25.5
2u	Circulating Cooling System	Operating from 5/31 17:21	28.0
3u	Circulating Cooling System	Operating from 6/30 18:33	27.3
4u	Circulating Cooling System	Operating from 7/31 10:08	36

[Unit 3] 9/29 13:20 ~ 15:10 Hydrazine injected to the spent fuel pool (approx 2m³).

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

<Water Injection to Pressure Containment Vessels> (as of 9/30 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. 3.7m ³ /h)	75.6	77.5	123.0 kPaabs
2u	Injecting freshwater (Feed Water System: approx. 4.0m ³ /h CS System: approx. 6.0 m ³ /h)	89.8	99.4	110 kPaabs
3u	Injecting freshwater (Feed Water System: approx. 2.5m ³ /h CS System: approx. 8.0 m ³ /h)	75.0	78.1	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.
- 9/28 We completed installation of steal sheet piles etc.
- 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 Unit 1 started.
- 9/26 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).
- 9/30 After the repair was finished, the residual heat removal system A (temporary) of sea water pump was switched to the B system (main). (The seawater system was also switched from A system to the B system).

- 9/30 15:00~

Stopped the power of Fuel Pool Cooling and Filtering System of Unit 3 in order to install an additional transformer panel for the operation at 3:00 pm on September 30.

END