

Plant Status of Fukushima Daiichi Nuclear Power Station

September 29, 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.

[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	·9/29 10:00 ~ 16:00 Transferring

Transfer to:	Status of Water Level (as of 7:00 on 9/29)
Process Main Building	Water level: O.P.+ 4,638 mm (Accumulated total increase: 5,855 mm) 11 mm increase from 9/28 7:00
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 1,780mm (Accumulated total increase: 2,506 mm) 253 mm decrease from 9/28 7:00

Water level at the vertical shaft of the trench and T/B (as of 9/29 7:00)

	Vertical Shaft of Trench	T/B	R/B
1u	O.P. <+850mm (No change since 9/28 7:00)	O.P. +4,952mm (38mm decrease since 9/27 7:00)	O.P. +4,984mm (72mm decrease since 9/28 7:00)
2u	O.P. +2,784mm (2mm decrease since 9/28 7:00)	O.P. +2,840mm (2mm decrease since 9/28 7:00)	O.P. +2,902mm (6mm decrease since 9/28 7:00)
3u	O.P. +3,273mm * (4mm decrease since 9/27 11:00)	O.P. +3,045mm (5mm decrease since 9/28 7:00)	O.P. +3,167mm (No change since 9/28 7:00)
4u	-	O.P. +3,085mm (14mm increase since 9/28 7:00)	O.P. +3,104mm (5mm decrease since 9/28 7:00)

As of 16:00 on Sep. 28. (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	9/28	10:31	ND	0.11	ND

*Results of nuclide analysis of seawater, sampled on September 28 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 9/29 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
1u	Circulating Cooling System	Operating from 8/10 11:22	24.5
2u	Circulating Cooling System	Operating from 5/31 17:21	28.0
3u	Circulating Cooling System	Operating from 6/30 18:33	26.7
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 9/29 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. 3.8m ³ /h)	75.5	77.5	123.5 kPaabs
2u	Injecting freshwater (Feed Water System: approx. 3.9m ³ /h CS System: approx. 6.0 m ³ /h)	90.7	99.7	109 kPaabs
3u	Injecting freshwater (Feed Water System: approx. 2.6m ³ /h CS System: approx. 8.0 m ³ /h)	75.3	78.7	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).
- 9/29 At around 10:30 am on September 29, the worker of the partner company got water from the drain hose to his full-face mask, when conducting the transfer of the concentrated waste water at the Water Treatment Facility. Since it is confirmed that the part around mouth of the worker was contaminated, we conducted measurement by whole body counter. As the result of the measurement, we have confirmed that the worker did not take in any radioactive materials.

END