Plant Status of Fukushima Daiichi Nuclear Power Station

September 12, 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.
- 9/4 19:44 Considering the current balance between the storage capacity of fresh water and the amount of water injection to reactors, we stopped all of the evaporative concentration apparatuses of water desalination facilities, while desalination (reverse osmosis membrane type) continues.
- 9/12 10:06 Waste liquid discharge pump (B) in the suppression pool water surge-tank (SPT) stopped.
  11:23 SPT waste liquid discharge pump (A) was activated. At 11:53 am, we restarted SPT waste liquid discharge pump (B) and stopped SPT waste liquid discharge pump (A).

[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 [Process Main Building]	・8/30 9:39～ Transferring
3u	・3u T/B → Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building（High Temperature Incinerator Building]	・9/11 10:00～ Transferring
6u	・6u Turbine Building → temporary tanks	・9/12 11:30～ Transferring

Transfer to:	Status of Water Level （as of 7:00 on 9/12）
Process Main Building	Water level：O.P.+ 5,035mm（Accumulated total increase：6,252mm） 48 mm increase from 9/11 7:00
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level：O.P.+ 1,662 mm（Accumulated total increase：2,388mm 15 mm decrease from 9/11 7:00

◇Water level at the vertical shaft of the trench and T/B (as of 9/12 7:00)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
1u	O.P. <+850mm (>3,150mm), No change since 9/11 7:00	O.P. +4,920mm, No change since 9/11 7:00
2u	O.P. +2,892mm (1,108mm), 50mm decrease since 9/11 7:00	O.P. +2,953mm, 47mm decrease since 9/11 7:00
3u	O.P. +3,223mm (777mm), 26mm decrease since 9/11	O.P. +3,004mm, 6mm increase since 9/11 7:00
4u	—	O.P. +3,071mm, 32mm decrease since 9/11 7:00

・ Water level at Unit 1 R/B: 9/8 7:00*, O.P. +4,755 mm
*After 7:00 on 8 September, relevant data could not be collected because of the camera surveillance did not work by the malfunction of light for water level gauge.

<Monitoring of Radioactive Materials>

◇ Nuclide Analysis of Seawater (Reference)

*Results of nuclide analysis of seawater, sampled on September 11 at 4 points of Fukushima Pref. coastal area are all ND for the 3 major nuclides (iodine-131, cesium-134 and cesium-137).

<Cooling of Spent Fuel Pools> (as of 9/12 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
1u	Circulating Cooling System	Operating from 8/10 11:22	30.0℃
2u	Circulating Cooling System	Operating from 5/31 17:21	33.0℃
3u	Circulating Cooling System	Operating from 6/30 18:33	32.3℃
4u	Circulating Cooling System	Operating from 7/31 10:08	40℃

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

<Water Injection to Pressure Containment Vessels> (as of 9/12 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)	90.2℃	85.2℃	126.4 kPaabs
2u	Injecting freshwater (approx. 3.7m^3/h)	107.2℃	113.0℃	119 kPaabs
3u	Injecting freshwater (Feed Water system: approx. 5.0m^3/h CS system: approx. 3.0 m^3/h)	103.8℃	98.5℃	101.5 kPaabs

- 9/11 17:40 adjusted the flow into the reactor of Unit 1 from approx. 3.5 m^3/h to approx. 3.8 m^3/h.
- 9/11 17:40 adjusted the flow into the reactor of Unit 2 from approx. 3.5 m^3/h to approx. 3.8 m^3/h
- 9/12 14:01 adjusted the flow into the reactor of Unit 3 through Feed Water System from approx. 5.0 m^3/h to approx. 4.0 m^3/h, while the flow through CS system continues at approx. 3.0 m^3/h.

【Unit 4】【Unit 5】【Unit 6】【Common spent fuel pool】 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.
- 9/11 9:45 ～13:30 Dust sampling at the apertural area of Reactor Building of Unit 1 implemented.
- 9/12 8:05 ～ 9:35 Dust sampling at the apertural area of Reactor Building of Unit 3 implemented.
- 9/12 around 10:00 Indication of a movable monitoring post was unreadable from monitoring panel in the Main Anti-Earthquake Building. The data transmission was resumed at 10:30 am.

END