Plant Status of Fukushima Daiichi Nuclear Power Station

October 13, 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.
- 10/4 11:38 Isolated circulating operation of the decontamination instrument has started in order to purify the water in the waste treatment water tank.*

  *On September 15, an increase in the radioactivity concentration of the processed water was detected after the water was processed in the decontamination instrument. According to the investigation thereafter, the increase was estimated that it was caused by the influx of highly radioactive sludge water into the waste water treatment tank when the water in the primary despondence tank was drained to change the stirrer.

[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 T/B → Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building]	・10/13 14:17～Transferring
3u	・3u T/B → Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	・10/13 14:02～Transferring
6u	・6u T/B → temporary tanks	・10/13 Transferring not planned

Transfer to:	Status of Water Level (as of 7:00 on 10/13)
Process Main Building	Water level：O.P.+ 2,554 mm (Accumulated total increase：3,771 mm) 120 mm decrease since 10/12 7:00
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level：O.P.+ 2,432 mm (Accumulated total increase：3,158 mm) 604 mm increase since 10/12 7:00

◇Water level at the vertical shaft of the trench and T/B (as of 10/13 7:00)

	Vertical Shaft of Trench	T/B	R/B
1u	O.P. <+850mm (No change since 10/12 7:00)	O.P. +4,949mm (No change since 10/12 7:00)	O.P. +4,423mm (29mm decrease since 10/12 7:00)
2u	O.P. +2,957mm (75mm increase since 10/12 7:00)	O.P. +2,989mm (69mm increase since 10/12 7:00)	O.P. +2,996mm* (as of 10/9 16:00)
3u	O.P. +3,359mm (9mm increase since 10/12 7:00)	O.P. +3,164mm (37mm increase since10/12 7:00)	O.P. +3,305mm (32mm increase since 10/12 7:00)
4u	-	O.P. +3,160mm (3mm increase since 10/12 7:00)	O.P. +3,175mm (1mm decrease since 10/12 7:00)

* Due to the water gauge failing, we put the most recent measured value.

<Monitoring of Radioactive Materials>

Nuclide Analysis of Seawater (Reference)

*Results of nuclide analysis of seawater, sampled on October 12 at 4 points around the Fukushima coastal area and 1 offshore point, are all ND for the 3 major nuclides (iodine-131, cesium-134 and cesium-137).

<Cooling of Spent Fuel Pools> (as of 10/13 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
1u	Circulating Cooling System	Operating from 8/10 11:22	24.0℃
2u	Circulating Cooling System	Operating from 5/31 17:21	27.0℃
3u	Circulating Cooling System	Operating from 6/30 18:33	24.9℃
4u	Circulating Cooling System	Operating from 7/31 10:08	34℃

【Unit 3】 10/13 13:05～14:50 We injected hydrazine to the spent fuel pool (approx. 2 m3)

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

10/6, at 22:32 alarm of the Circulating Cooling System went off and it stopped its operation automatically.

10/13 10:17 The desalting facility was restarted. Maintenance work was conducted during the shutdown.

<Water Injection to Pressure Containment Vessels> (as of 10/13 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 (Feed Water System: approx. 3.7m^3/h)	71.4℃	73.4℃	121.7 kPaabs
2u	Injecting freshwater (Feed Water System: approx. 3.5m^3/h CS System: approx. 7.1 m^3/h)	77.3℃	84.3℃	117 kPaabs
3u	Injecting freshwater (Feed Water System: approx. 2.1m^3/h CS System: approx. 8.0 m^3/h)	70.8℃	73.1℃	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.
- 6/28～ 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～ Conducting installment of wall panel for cover of reactor building of Unit 1
- 10/7～ We are spraying purified accumulated water at Unit 5 and 6 continually in order to prevent dust scattering and potential fire outbreaks from the cut down trees.
- 10/13 9:42～9:54 The Residual Heat Removal System (A) was stopped in order to confirm the operation of the seawater pump for the temporary Residual Heat Removal System of Unit 6. Afterwards, the Residual Heat Removal System (B) was started.
- 10/13 10:07～10:17 We stopped the operation of the Residual Heat Removal System (B). Afterwards, the Residual Heat Removal System (A) was started.
- 10/13 10:00～12:00 We conducted sampling of dust at the openings (blow out panel) of Reactor Building of Unit 2.
- 10/13 11:56～13:02 We surveyed the conditions of the penetration part of piling on the southeast side of the 1st floor of Reactor Building, Unit 2 using robot. (place where spewing steam was found on June 3)

END