Plant Status of Fukushima Daiichi Nuclear Power Station

October 18, 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.
- 10/18 At 6:09 am we suspended the Cesium adsorption apparatus unit No.1 due to power reinforcement works of the water desalinations. At 9:04 am for the same reason we suspended Unit No.2.

[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 14:17～10/18 9:10 Transferred
3u	・3u T/B → Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	・10/13 14:02～10/18 9:16 Transferred
6u	・6u T/B → temporary tanks	・10/14 10:00～16:00 Transferred

Transfer to:	Status of Water Level (As of October 18 at 7:00)
Process Main Building	Water level: O.P.+ 2,592 mm(Accumulated total increase:3,809 mm) 22mm increase since 10/17, 7:00
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 2,841 mm(Accumulated total increase:3,567 mm) 153mm increase since 10/17, 7:00

◇Water level at the vertical shaft of the trench and T/B (as of 10/18 7:00)

	Vertical Shaft of Trench	T/B	R/B
1u	O.P.< + 850 mm (No change since 10/17, 7:00)	O.P.+ 4,926 mm (6mm decrease since 10/17, 7:00)	O.P.+ 4,397 mm (11mm decrease since 10/17, 7:00)
2u	O.P.+ 2,966 mm (5mm decrease since 10/17, 7:00)	O.P.+ 2,994 mm (5mm decrease since 10/17, 7:00)	O.P.+ 3,077 mm (4mm decrease since 10/17, 7:00)
3u	O.P.+ 3,219 mm (37mm decrease since 10/17, 7:00)	O.P.+ 2,910 mm (42mm decrease since 10/17, 7:00)	O.P.+ 3,074 mm (41mm decrease since 10/17, 7:00)
4u	—	O.P.+ 3,035 mm (32mm decrease since 10/17, 7:00)	O.P.+ 3,056 mm (36mm decrease since 10/17, 7:00)

<Monitoring of Radioactive Materials>

Nuclide Analysis of Seawater (Reference)

*Results of nuclide analysis of seawater, sampled on October 17 at 4 points around the Fukushima coastal area and 12 offshore points, are all ND for the 3 major nuclides (iodine-131, cesium-134 and cesium-137).

<Cooling of Spent Fuel Pools> (as of 10/18 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	28.0 ℃
3u	Circulating Cooling System	Operating from 6/30 18:33	26.8 ℃
4u	Circulating Cooling System	Operating from 7/31 10:08	37 ℃

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

<Water Injection to Pressure Containment Vessels> (as of 10/18 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. 3.7 m^3/h)	71.3℃	73.3℃	121.0 kPaabs
2u	Injecting freshwater (Feed Water System: Approx. 3.6 m^3/h, Core Spray System: Approx. 7.1m^3/h)	76.1℃	81.9℃	119 kPaabs
3u	Injecting freshwater (Feed Water System: Approx. 2.2 m^3/h, Core Spray System: Approx. 8.1 m^3/h)	70.5℃	72.8℃	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
- 9/10～10/14 Installment of wall panel for cover of reactor building of Unit 1
- 10/15～ We are continuously implementing related work for installing a cover over Unit 1 Reactor Building.
- 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.
- 10/18 At around 11:00 am we found accumulated water of 15 cm depth inside the skid, during motor replacement works of the pump (H2-2) inside the skid of the suspended Cesium adsorption apparatus. We are investigating the cause of this.

END