Plant Status of Fukushima Daiichi Nuclear Power Station

August 15, 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.
- 7/2 18:00 We completed installing buffer tanks and resumed circulating injection cooling via buffer tanks.
- 8/1 17:00 Water injection and water flow test of Cesium adsorption Instruments No.2 (SARRY) started.
- 8/7 16:11 Evaporative Concentration Facility, which was additionally installed to Water Treatment Facility to produce fresh water from concentrated seawater generated at Water Desalination Facility, has started full operation.
- 8/12 18:17 A process error alarm was generated in decontamination instruments and the water treatment facility was stopped.
  22:59 No facility malfunction was found. We estimated it was transient malfunction of their control system and restarted the facility.
  23:33 Water treatment was resumed. (Reached normal flow rate)
- 8/13 7:11 We found a hose injecting chemical to the evaporative apparatus was detached, thus we manually stopped Evaporative Concentration Apparatus (2B) in water desalination facility.
  12:01 After we reconnected the detached hose and inspected connection points of similar hoses, we resumed operation of Evaporative Concentration Apparatus (2B).

[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]	・8/10 16:47～Transferring is in operation
3u	・3u T/B → Central Radioactive Waste Treatment Facility [Process Main Building]	・8/5 8:42～ 8/15 16:46
6u	・6u Turbine Building → temporary tanks	・8/15 11:00～Transferring is in operation
	・Temporary tanks →Mega Float	・No transfer

Transfer to:	Status of Water Level （as of 7:00 on 8/15）
Process Main Building	Water level：O.P.+ 5,341mm（Accumulated total increase：6,558mm) 6 mm decrease from 8/14 7:00
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level：O.P.+ 3,637mm（Accumulated total increase：4,363mm) 27 mm increase from 8/13 7:00

◇Water level at the vertical shaft of the trench and T/B (as of 8/15 7:00)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
1u	O.P. <+850mm (>3,150mm), No change since 8/14 7:00	O.P. +4,920mm, No change since 8/14 7:00
2u	O.P. +3,534mm (466mm), 21mm decrease since 8/14 7:00	O.P. +3,555mm, 19mm decrease since 8/14 7:00
3u	O.P. +3,603mm (397mm), 6mm decrease since 8/14 7:00	O.P. +3,502mm, 10mm decrease since 8/14 7:00
4u	—	O.P. +3,513mm, 8mm decrease since 8/14 7:00

・ Water level at Unit 1 R/B: 8/15 7:00, O.P. +4,566 mm, 12mm decrease since 8/14 7:00.

<Monitoring of Radioactive Materials>

◇ Nuclide Analysis of Seawater (Reference)

* All the samples collected at 4 points along the coast and 5 points offshore of Fukushima Prefecture on August 14 were all below the detectable threshold.

<Cooling of Spent Fuel Pools> (as of 8/15 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
1u	Circulating Cooling System	Operating from 8/10 11:22	35.0℃
2u	Circulating Cooling System	Operating from 5/31 17:21	37.0℃
3u	Circulating Cooling System	Operating from 6/30 18:33	33.9℃
4u	Circulating Cooling System	Operating from 7/31 10:08	43℃

<Water Injection to Pressure Containment Vessels> (as of 8/15 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. 3.9m^3/h）	102.5℃	92.9℃	130.8kPaabs
2u	Injecting freshwater（approx. 3.6m^3/h）	108.2℃	115.7℃	120kPaabs
3u	Injecting freshwater（approx. 9.1m^3/h）	107.0℃	103.9℃	101.5kPaabs

【Units 4】【Unit 5】【Units 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 Started setting up iron framework of the cover for the reactor building of Unit 1

END