Plant Status of Fukushima Daiichi Nuclear Power Station

August 4, 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.
・7/24	11:57	Water desalinations were shut-downed due to annunciator alarmed with relation to sand filtration system.
	19:19	Water desalinations were restarted by switching to spare equipment. Water injection into reactors of Unit 1 to 3 were continued without interruption by feeding water from filtrate tank to buffer tank.
・7/31	10:50	a leakage was detected between water desalination facility and primary storage tank of concentrated water of water desalination equipment along the transfer line.
	11:15	we stopped the transferring pumps. At 11:20 am, we stopped the water desalination facilities. After that, we closed the valves of the transfer line, confirming that the leakage stopped at 0:30 pm.
	15:02	After replacing the line material and checking the status of leakage, we started the water desalination facility again.
・8/1	17:00	Water injection and water flow test of Cesium adsorption Instruments No.2 (SARRY) started.
・8/2	10:00	Commissioning of desalination facility (evaporation method) started.
・8/4	5:32	Stopped Water Treatment Facility due to work of a bypass line installation to improve the treatment volume of accumulated water.

[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 (as of 8/4 7:00 am)

Unit	Draining water source → Place transferred	Status
2u	2u Vertical Shaft of Trench → Process Main Building, Central Radioactive Waste Treatment Facility (4/19～5/26, 6/4～6/8, 6/8～6/16, 6/22～6/27, 6/27～7/7, 7/13～7/15, 7/16～7/21, 7/22～7/29, 7/30～8/2, 8/4 7:09～)	[Process Main Building] Water level: O.P.+5,249 mm 64 mm decrease from 8/3 7:00 am) (Accumulated total increase : 6,466 mm) [Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)] Water level: O.P.+3,495 mm (48 mm increase from 8/3 7:00 am) (Accumulated total increase: 4,221mm)
3u	3u T/B → Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building) of Central Radioactive Waste Treatment Facility (5/17～5/25, 6/18～6/20) 3u T/B → Process Main Building of Central Radioactive Waste Treatment Facility (6/14～6/16, 6/21～6/27, 6/27～6/28, 6/30～7/9, 7/10～7/15, 7/16 10:50 am～7/21 15:59、7/22～7/29, 7/30 16:13～8/4 7:17)	
6u	6u Turbine Building → temporary tanks 5/1～6/22, 6/30～7/9, 7/11, 7/21～24, 7/26～31, 8/2 as needed, 8/3 11:00～16:00 Temporary tanks →Mega Float 6/30～7/5, 7/7～7/9, 7/11～16 and 7/27～28, 7/30～31 as needed, 8/2 as needed, 8/3 10:00～17:00	—

◇Water level at the vertical shaft of the trench and T/B (as of 7:00 am on August 4)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
1u	O.P. <+850mm (>3,150mm), No change since 8/3 7:00 am	O.P. +4,920mm, No change since 8/3 7:00 am
2u	O.P. +3,686mm (314mm), 51mm increase since 8/3 7:00 am	O.P. +3,696mm, 48mm increase since 8/3 7:00 am
3u	O.P. +3,736mm (264mm), 7mm decrease since 8/3 7:00 am	O.P. +3,572mm, 8mm decrease since 8/3 7:00 am
4u	—	O.P. +3,588mm, 8mm decrease since 8/3 7:00 am

・ Water level at Unit 1 R/B: 8/4 7:00 am, O.P. +4,717 mm, 16mm decrease since 8/3 7:00 am.

<Monitoring of Radioactive Materials>

◇ Nuclide Analysis of Seawater (Reference)

Sampling Location	Date	Time	Ratio to Criteria (times)

			Iodine-131	Cecium-134	Cecium-137
Around North Water Discharge Channel, 2F (approx. 10km from 1F)	8/3	8:25 am	ND	0.08	ND
Around Iwasawa Shore, 2F (approx. 16km from 1F)	8/3	7:55 am	ND	ND	0.05

* Samples collected at 2 points along the coast of Fukushima Prefecture and 6 points off the coast of Fukushima Prefecture on August 3 were all below the detectable threshold.

<Cooling of Spent Fuel Pools>

Unit	Cooling type	Status of cooling	Temperature of water in Pool
1u	Fuel Pool Cooling and Filtering System	No water injection plan on 8/4	—
2u	Circulating Cooling System	Operating from 5/31 5:21 pm	34.0℃ (8/4 11:00)
3u	Circulating Cooling System	Operating from 6/30 6:33 pm	31.2℃ (8/4 11:00)
4u	Circulating Cooling System	Operating from 7/31 10:08 pm	41℃ (8/4 11:00)

・8/4 15:32～ We started replenishing water to the skimmer surge tank of Unit 4.

<Water Injection to Reactor Pressure Vessels> (at 11:00 am, 8/4)

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)	104.5℃	93.6℃	132.0kPaabs
2u	Injecting freshwater (approx. 3.5m^3/h)	111.7℃	122.6℃	135kPaabs
3u	Injecting freshwater (approx. 9.1m^3/h)	116.0℃	108.1℃	101.6kPaabs

【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

・8/4 Conduct gas sampling inside of Unit 2 PCV

・8/4 12:09 During a connection test of work to enhance instrument power, a diesel generator (5B) automatically started due to an error signal in relation to a water level of a reactor and we manually stopped it. There was no impact to electric power system.

・8/4 around 12:50 Electricity went out in Main Anti-Earthquake Building.

around 12:51 An emergency gas turbine generator started and power supply to Main Anti-Earthquake Building was restored. We are currently scrutinizing a cause of the electric power outage. There is no impact to plants due to the outage and we continue injecting water and nitrogen to reactors

END