

Plant Status of Fukushima Daiichi Nuclear Power Station

August 6, 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.
- 8/2 10:00 Commissioning of desalination facility (evaporation method) started.
- 8/5 2:12 A process error alarm was generated and water treatment facility stopped.
4:03 We confirmed that there were no problems with the facility and restarted it. It reached the rated flow at 4:21 am.
- 8/6 6:20 We stopped desalination facility, from approximately 8:30 am we made an inspection of level switch in the water tank of this facility.
14:20 The inspection finished, at 14:30 we resumed desalination facility.

[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 8/6 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.+5,209 mm 37 mm decrease from 8/5 7:00 am) (Accumulated total increase : 6,426 mm)
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 ~ 8/4, 8/5 8:42 ~)	[Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)] Water level: O.P.+3,558 mm (26 mm increase from 8/5 7:00 am) (Accumulated total increase: 4,284mm)
6u	6u Turbine Building → temporary tanks 5/1 ~ 6/22, 6/30 ~ 7/9, 7/11, 7/21 ~ 24, 7/26 ~ 31, 8/2 ~ 8/3 as needed, 8/5 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 ~ 8/3 as needed, 8/5 10:00 ~ 17:00, 8/6 10:00 ~	-

Water level at the vertical shaft of the trench and T/B (as of 8/6 7:00 am)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
1u	O.P. <+850mm (>3,150mm), No change since 8/5 7:00 am	O.P. +4,920mm, No change since 8/5 7:00 am
2u	O.P. +3,650mm (350mm), 17mm decrease since 8/5 7:00 am	O.P. +3,662mm, 17mm decrease since 8/5 7:00 am
3u	O.P. +3,756mm (244mm), 4mm decrease since 8/5 7:00 am	O.P. +3,599mm, 12mm decrease since 8/5 7:00 am
4u	-	O.P. +3,606mm, 3mm increase since 8/5 7:00 am

- Water level at Unit 1 R/B: 8/6 7:00 am, O.P. +4,702 mm, 1mm decrease since 8/5 7:00 am.

<Monitoring of Radioactive Materials>

Nuclide Analysis of Seawater (Reference)

Sampling Location	Date	Time	Ratio to Criteria (times)		
			Iodine-131	Cesium-134	Cesium-137
Around 30m North from Water Discharge Channel of Unit 5 and 6, 1F	8/5	10:10 am	ND	0.32	ND
Around Iwasawa Shore, 2F (approx. 16km from 1F)	8/5	7:50 am	ND	0.07	ND

* All the samples collected at 2 points along the coast of Fukushima Prefecture on August 5 were all below the detectable threshold. Sampling on the offshore of Fukushima Prefecture was suspended due to bad weather condition.

<Cooling of Spent Fuel Pools>

Unit	Cooling type	Status of cooling	Temperature of water in Pool
1u	Fuel Pool Cooling and Filtering System	Water injection from 8/5 3:20 pm to 5:51 pm	-
2u	Circulating Cooling System	Operating from 5/31 5:21 pm	35.0 (8/6 11:00)
3u	Circulating Cooling System	Operating from 6/30 6:33 pm	32.4 (8/6 11:00)
4u	Circulating Cooling System	Operating from 7/31 10:08 pm	41 (8/6 11:00)

·8/4 15:32 ~ 16:02 We injected water to the spent fuel pool to replenish the skimmer surge tank of Unit 4.

<Water Injection to Reactor Pressure Vessels> (as of 8/6 11:00 am)

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)	104.2	93.4	130.9 kPaabs
2u	Injecting freshwater (approx. 3.9m ³ /h)	111.1	121.4	131 kPaabs
3u	Injecting freshwater (approx. 9.0m ³ /h)	115.4	107.4	101.5 kPaabs

[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 Although we conducted gas sampling inside of Unit 2 PCV, we stopped sampling due to the water accumulated in the pipes.
- 8/4 12:09 During a power connection test to enhance instrument power, a diesel generator (5B) automatically started due to an error signal related to the water level of reactors 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 because the underground distribution cable was damaged by boring work.
- around 12:51 An emergency gas turbine generator started and power supply to Main Anti-Earthquake Building was restored. There is no impact to plants due to the outage.

END