

Plant Status of Fukushima Daiichi Nuclear Power Station

August 10, 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.
- 8/8 20:20 Due to alarm of Suppression Pool Water Surge-Tank (hereafter "SPT") water level gauge, Water Treatment Facility has stopped.
22:22 After confirming no problems with Water Treatment Facility, we started the Water Treatment Facility. At 22:45, we resumed the operation.
- 8/9 1:50 Due to the power source stoppage of Suppression Pool Water Surge-Tank (hereafter "SPT"), SPT Waste Liquid Pump and SPT Receiving Water Transfer Pump have stopped. An alarm showed low water level of Waste Liquid Reverse Osmosis Membrane Supply Tank.
6:57 Completed the reparation of SPT Receiving Tank's water level gauge.
9:35 Since Waste Liquid Reverse Osmosis Membrane Supply Tank' water level has restored, we resumed the operation of Water Desalinations.

[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 ~ Transferring is in operation
6u	• 6u Turbine Building → temporary tanks	• 8/8 11:00 ~ 16:00 • 8/9 11:00 ~ 8/10 17:00
	• Temporary tanks → Mega Float	• 8/8 10:00 ~ 17:00 • 8/9 10:00 ~ Transferring is in operation (※1)

Transfer to:	Status of Water Level (as of 7:00 on 8/10)
Process Main Building	Water level: O.P.+ 5,291mm (Accumulated total increase: 6,508mm) 53 mm increase from 8/9 7:00 am
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 3,475mm (Accumulated total increase: 4,201mm) 3 mm decrease from 8/9 7:00 am ※(as of 8/9 16:00) 8/10 7:00 not confirmed due to camera error

• 8/10 10:06 ~ 14:19 Transferred from On Site Bunker Building to Process Main Building.

- (※1) 8/9 10:00 Started the transferring of accumulated water from temporary tanks to Mega Float.
- Around 10:12 Since the leakage from transferring hose was confirmed, we stopped transferring.
- 13:35 We replaced the leaked part of transferring hose and resumed transferring.

Water level at the vertical shaft of the trench and T/B (as of 8/10 7:00 am)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
1u	O.P. <+850mm (>3,150mm), No change since 8/9 7:00 am	O.P. +4,920mm, No change since 8/9 7:00 am
2u	O.P. +3,604mm (396mm), 20mm increase since 8/9 7:00 am	O.P. +3,602mm, 18mm decrease since 8/9 7:00 am
3u	O.P. +3,716mm (284mm), 11mm decrease since 8/9 7:00 am	O.P. +3,554mm, 12mm decrease since 8/9 7:00 am
4u	—	O.P. +3,564mm, 13mm decrease since 8/9 7:00 am

- Water level at Unit 1 R/B: 8/10 7:00 am, O.P. +4,619 mm, 23mm decrease since 8/9 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
Approx.30m north of 1F5-6 Discharge Channel	8/9	9:50	ND	0.38	ND

* All the samples collected at 3 points along the coast and 5 points offshore of Fukushima Prefecture on August 8, as well as 10 points off the coast of Ibaraki sampled on 8/2,3,6,7 were all below the detectable threshold.

<Cooling of Spent Fuel Pools>

Unit	Cooling type	Status of cooling	Temperature of water in Pool
1u	Circulating Cooling System	Operating from 8/10 11:22 am	47.0°C (8/10 12:00)
2u	Circulating Cooling System	Operating from 5/31 5:21 pm	35.0°C (8/9 11:00)
3u	Circulating Cooling System	Operating from 6/30 6:33 pm	32.8°C (8/9 11:00)
4u	Circulating Cooling System	Operating from 7/31 10:08 pm	42°C (8/9 11:00)

- 8/10 8:59~9:19 Water injection to Unit 1 spent fuel pool
- 8/10 11:22 Started Unit 1 spent fuel pool alternative cooling system, and resumed full operation
- 8/10 13:08~13:47 Supply to Unit 4 skimmer surge tank

<Water Injection to Reactor Pressure Vessels> (as of 8/10 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. 4.0m ³ /h)	105.0°C	94.2°C	131.4 kPaabs
2u	Injecting freshwater (approx. 4.0m ³ /h)	109.5°C	116.6°C	125 kPaabs
3u	Injecting freshwater (approx. 8.8m ³ /h)	116.3°C	104.8°C	101.5 kPaabs

【Units 4】【Unit 5】【Units 6】【Common spent fuel pool】 No particular changes in parameters.

- 8/10 8:32 Adjusted Unit 1 and 2 injection amount from 3.5 m³/h, 3.4 m³/h respectively to 3.8 m³/h.
- 8/10 12:20 Adjusted Unit 1 and 2 injection amount from 4.0 m³/h, 4.0 m³/h respectively to 3.8 m³/h.
- 8/10 16:22 Adjusted Unit3 injection amount from 8.0~8.8 m³/h to 9.1 m³/h.

<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
- 8/9 10:39~11:13 Conducted gas sampling inside of Unit 2 Primary Containment Vessel.

END