

Plant Status of Fukushima Daiichi Nuclear Power Station

August 17, 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).
- 8/16 12:04 We stopped the operation of the water treatment facility and started the test operation of Cesium adsorption Instruments No.2.
- 8/17 10:40 Water leakage from mechanical seal on Concentrated Water Transfer Pump for Evaporative Concentration Apparatus was found and the pump was manually stopped. Water injection to Desalination System, Evaporative Concentration Apparatus and Reactor is continued.

[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]	·8/16 11:43 ~ Transfer stopped
3u	·3u T/B → Central Radioactive Waste Treatment Facility [Process Main Building]	·8/5 16:46 ~ Transfer stopped
6u	·6u Turbine Building → temporary tanks	·8/17 No transfer
	·Temporary tanks → Mega Float	·8/17 No transfer

Transfer to:	Status of Water Level (as of 7:00 on 8/17)
Process Main Building	Water level: O.P.+ 5,223mm (Accumulated total increase: 6,440mm) 24 mm decrease from 8/16 7:00
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 3,710mm (Accumulated total increase: 4,436mm) 38 mm increase from 8/16 7:00

- 8/17 8:50 ~ Transfer from Miscellaneous Solid Waste Volume Reduction Treatment Building to Process Main Building was resumed.

Water level at the vertical shaft of the trench and T/B (as of 8/17 7:00)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
1u	O.P. <+850mm (>3,150mm), No change since 8/16 7:00	O.P. +4,920mm, No change since 8/16 7:00
2u	O.P. +3,546mm (454mm), 33mm increase since 8/16 7:00	O.P. +3,566mm, 32mm increase since 8/16 7:00
3u	O.P. +3,636mm (364mm), 24mm increase since 8/16 7:00	O.P. +3,547mm, 23mm increase since 8/16 7:00
4u	-	O.P. +3,540mm, 24mm increase since 8/16 7:00

- Water level at Unit 1 R/B: 8/17 7:00, O.P. +4,531 mm, 14mm decrease since 8/16 7:00.

<Monitoring of Radioactive Materials>

Nuclide Analysis of Seawater (Reference)

* All the samples collected on August 16 at 4 points along the coast and 5 points offshore of Fukushima Prefecture and 8 points offshore of Ibaraki Prefecture were all below the detectable threshold.

<Cooling of Spent Fuel Pools> (as of 8/17 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
1u	Circulating Cooling System	Operating from 8/10 11:22	34.0
2u	Circulating Cooling System	Operating from 5/31 17:21	37.0
3u	Circulating Cooling System	Operating from 6/30 18:33	34.1
4u	Circulating Cooling System	Operating from 7/31 10:08 ¹	42 ²

¹ 8/17 7:58 ~ 15:00 Cooling was suspended to replace a hose for spent fuel pool circulating injection cooling system in Unit 4 due to the extremely small amount of leakage found on Aug. 11 and 12.

² 8/17 Pool temperature at 7:40

<Water Injection to Pressure Containment Vessels> (as of 8/17 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. 3.8m ³ /h)	102.4	92.8	130.7kPaabs
2u	Injecting freshwater (approx. 3.6m ³ /h)	108.1	115.1	119kPaabs
3u	Injecting freshwater (approx. 9.1m ³ /h)	106.3	103.6	101.5kPaabs

[Units 4] [Unit 5] [Units 6] [Common spent fuel pool] No particular changes in parameters.

- 8/17 15:46 We adjusted the rate of water injection to Unit 2 from 3.5m³/h to 3.8m³/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

END