

Plant Status of Fukushima Daiichi Nuclear Power Station

August 22, 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.
- 8/7 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.
- 8/18 14:43 We started operation of the water treatment facility.
(We started treatment of accumulated water at series operation including highly concentrated radioactive materials by cesium adsorption Instrument, 2nd cesium adsorption Instrument and decontamination instrument)
- 15:50 We confirmed flow rate reached normal level ,water treatment facility operated stably and operation status had no problem)
- 8/19 14:00 We stopped operation of Water Treatment Facility in order to transition to parallel operation of the line from cesium adsorption instrument to decontamination instrument and the line of 2nd cesium adsorption instrument.
- 15:44 We started operation of the line from cesium adsorption instrument to decontamination instrument of Water Treatment Facility. At 15:54 the flow rate achieved steady state.
- 19:33 We activated second cesium adsorption facility (System B) and started parallel operation. At 19:41, the flow rate achieved steady state.
- 8/21 9:30 We additionally started desalination facility (1A, 1B). At 10:30, we confirmed stable operation.

[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 [Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)]	·8/18 16:19 ~ Transferring is in operation
3u	·3u T/B → Central Radioactive Waste Treatment Facility [Process Main Building]	·8/21 9:39 ~ Transferring is in operation
6u	·6u Turbine Building → temporary tanks	·8/22 No transfer planned
	·Temporary tanks →Mega Float	·8/22 No transfer planned

Transfer to:	Status of Water Level (as of 7:00 on 8/22)
Process Main Building	Water level: O.P.+ 5,217mm (Accumulated total increase: 6,434mm) 29mm decrease from 8/21 7:00
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 2,691mm (Accumulated total increase: 3,417mm) 72 mm decrease from 8/21 7:00

Water level at the vertical shaft of the trench and T/B (as of 8/22 7:00)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
1u	O.P. <+850mm (>3,150mm), No change since 8/21 7:00	O.P. +4,920mm, No change since 8/21 7:00
2u	O.P. +3,552mm (448mm), 7mm decrease since 8/21 7:00	O.P. +3,571mm, 7mm decrease since 8/21 7:00
3u	O.P. +3,677mm (325mm), 2mm increase since 8/21 7:00	O.P. +3,565mm, 2mm decrease since 8/21 7:00
4u	-	O.P. +3,574mm, 6mm decrease since 8/21 7:00

- Water level at Unit 1 R/B: 8/22 7:00, O.P. +4,780 mm, 151mm increase since 8/21 7:00.

<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 from Discharge Channel of 5,6u of 1F	8/21	9:40	ND	0.53	0.54

- 3 main nuclide were not detected from seawater samples collected on August 21 at 3 points along the coast and 5 points offshore of Fukushima Prefecture.

<Cooling of Spent Fuel Pools> (as of 8/22 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
1u	Circulating Cooling System	Operating from 8/10 11:22	29.0
2u	Circulating Cooling System	Operating from 5/31 17:21	34.0
3u	Circulating Cooling System	Operating from 6/30 18:33	30.8
4u	Circulating Cooling System	Operating from 7/31 10:08 ¹	39

<Water Injection to Pressure Containment Vessels> (as of 8/22 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. 3.7m ³ /h)	90.6	87.8	125.8kPaabs
2u	Injecting freshwater (approx. 3.7m ³ /h)	106.9	113.9	115kPaabs
3u	Injecting freshwater (approx. 7.0m ³ /h)	106.0	106.0	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
- 8/19 We implemented sampling of spent fuel pool water of Unit 1 to 3
- 8/20 We started sampling water in Spent fuel Pool of Unit 4.
We started trial operation of desalting facility for Unit 4 spent fuel pool at 10:24, and after confirmed no-problems, we started full scale operation at 11:34..

END