

Plant Status of Fukushima Daiichi Nuclear Power Station

January 31, 2012
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]

- At 18:42 on January 17, 2012: We actuated Cesium adsorption apparatus. At 18:45, the flow rate reached steady state.
- At 12:06 on January 29, we restarted the second Cesium adsorption apparatus (Sarry). At 12:18 it reached its regular flow rate.

[Storage Facility]

- June 8, 2011~: Large 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
Unit 2	• Unit 2T/B→Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)]	• 16:05 on January 30 - transferring
Unit 3	• Unit 3T/B→Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)]	• 16:12 on January 30 - transferring
Unit 6	• Unit 6T/B→Temporary tanks	• Transferred from 10:00 to 16:00 on January 31

Place transferred	Status of Water Level (As of January 31 at 7:00)
Process Main Building	Water level: O.P.+ 4,133 mm(Accumulated total increase:5,350 mm), decreased 126mm since 7:00 am on January 30
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 2,394mm(Accumulated total increase:3,120 mm), increased 150mm since 7:00 am on January 30

From 9:35 to 15:33 on January 31 the accumulated water was transferred from the On-site Bunker Building to the Process Main Building in Central Radioactive Waste Treatment Facility.

◇Water level of the vertical shaft of the trench, T/B and R/B(As of January 31 at 7:00)

	Vertical Shaft of Trench	T/B	R/B
Unit 1	O.P. <+ 850 mm (No change since 7:00 on January 30)	O.P.+ 2,771 mm (19mm increase since 7:00 on January 30)	O.P.+ 4,226 mm (6mm increase since 7:00 on January 30)
Unit 2	O.P.+ 3,063 mm (22mm decrease since 7:00 on January 30)	O.P.+ 3,036 mm (20mm decrease since 7:00 on January 30)	O.P.+ 3,205 mm (18mm decrease since 7:00 on January 30)
Unit 3	O.P.+ 3,027 mm (5mm decrease since 7:00 on January 30)	O.P.+ 2,946 mm (9mm increase since 7:00 on January 30)	O.P.+ 3,244 mm (2mm increase since 7:00 on January 30)

Unit 4	—	O.P.+ 2,959 mm (3mm increase since 7:00 on January 30)	O.P.+ 2,981 mm (8mm decrease since 7:00 on January 30)
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<Monitoring of Radioactive Materials>

Nuclide Analysis of Seawater (Reference)

Place of sampling	Date of sampling	Time of sampling	Ratio of density limit (times)		
			I-131	Cs-134	Cs-137
Around 7km south of the discharge channel of 1-2Units, 2F	1/30	8:10	ND	0.02	0.02

•At the five offshore points (sampled on January 29) of Fukushima Prefecture, all the major 3 nuclides (I-131, Cs-134 and Cs-137) were ND. Sampling at the 3 coast points of Fukushima Prefecture were suspended due to the bad weather.

<Cooling of Spent Fuel Pools >(As of January 31 at 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
Unit 1	Circulating Cooling System	Under operation ^{*1}	13.0 °C
Unit 2	Circulating Cooling System	Under operation	12.5 °C
Unit 3	Circulating Cooling System	Under operation	16.1 °C
Unit 4	Circulating Cooling System	Under operation ^{*2}	28 °C

*1: Air fin cooler of Secondary System out of operation

*2: Cooling tower of Secondary System out of operation

【Unit 2】 •A desalination equipment has been activated in order to reduce density of salt from the spent fuel pool since 11:50 on January 19.

【Unit 3】 • A radioactive material removal equipment has been activated in order to remove radioactive materials from the spent fuel pool since 15:18 on January 14.

<Water Injection to Pressure Containment Vessels >(As of January 31 at 11:00)

Unit	Status of water injection	Feed-water nozzle Temp.	Reactor pressure vessel Bottom temp.	Pressure of primary containment vessel
Unit 1	Injecting freshwater (Feed Water System: Approx. 5.8m ³ /h, Core Spray System: Approx.0.9 m ³ /h)	24.3 °C	24.7 °C	106.3 kPaabs
Unit 2	Injecting freshwater (Feed Water System: Approx.5.0 m ³ /h, Core Spray System: Approx.4.0 m ³ /h)	45.8 °C	50.4°C	109 kPaabs
Unit 3	Injecting freshwater (Feed Water System: Approx.5.0 m ³ /h, Core Spray System: Approx.4.0 m ³ /h)	42.6°C	52.0 °C	101.6 kPaabs

【Unit 1】•At 22:15 on January 30, since we observed the decrease in the water injection amount to the reactor, we increased the water injection volume from the reactor core spray system from approx. 0.5 m³/h to approx. 1.0 m³/h (volume from the feed water system remains same at approx. 5.8m³/h). *

【Unit 2】 •At 10:50 on January 31, we decreased the water injection volume from the feed water system from approx. 6.6 m³/h to approx. 5.0 m³/h, and increased the volume from the reactor core spray system from 2.8m³/h to approx. 4.0m³/h. *

【Unit 3】 •At 11:00 on January 31, we decreased the water injection volume from the feed water system from approx. 6.2 m³/h to approx. 5.0 m³/h, and increased the volume from the reactor core spray system from 2.8m³/h to approx. 4.0m³/h.

* As the replacing work of the water injection line of the reactor water injection pump on the hill into the polyethylene pipe

was finished, the water injection amount has been gradually adjusted.

【Unit 4】【Unit 5】【Unit 6】•No major change

<Others>

- October 7, 2011～: Continuously implementing water spray using water after purifying accumulated water of Unit 5 and Unit 6 to prevent spontaneous fire of trimmed trees and diffusion of dust.
- January 11, 2012～: As finding accumulated water including radioactive materials (December 18, 2011) at the trench between Process Main Building of Central Radioactive Waste Treatment Facility and Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building), we started inspection of the other trenches in the site. *Please refer to the other reference materials for the result of daily inspection.
- January 30 2012: Water leakage newly found after the last release of this material till 15:00 on January 31.
 - the filtered water supply line of the reactor injection pump on the hill (B) valve box (found at 15:20, Jan 30) filtered water* approx. 600 L
 - evaporative concentration apparatus 3A seal water coolant exit line flange part (found at 15:20, Jan 30) filtered water* approx. 10 L
 - evaporative concentration apparatus boiler (A) concentrated water backflow line flange part (found at 9:05, Jan 31) filtered water* approx. 20 L
 - No.2 filtered water tank valve bonnet screw part (found at 14:30, Jan 31) filtered water* approx. 20 L*Filtered water: taken from the dam
- January 31 2012 9:18～: Transfer of sub-drain water of Unit 6 to the temporary storage tank started. It will be transferred to the temporary tank.

End