

Plant Status of Fukushima Daiichi Nuclear Power Station

January 11, 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]

- 14:36 on January 4, 2012: We restarted the 2nd cesium adsorption facility. At 14:48, we reached the regular flow rate.
- 15:22 on January 11, 2012: We actuated Cesium adsorption apparatus. At 15:30 the flow rate reached steady state.

[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 [Process Main Building]	· 8:17 on January 10 – 15:21 on January 11 Implementation of Transfer
	· Unit 2 T/B Central Radioactive Waste Treatment Facility [Process Main Building] Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)	· From 15:45 on January 11 Transferring*
Unit 3	· Unit 3T/B Central Radioactive Waste Treatment Facility [Process Main Building, Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)]	· From 15:39 on January 11 Transferring
Unit 6	·Unit 6T/B Temporary tanks	· 1/11 No transfer

Transferring destination	Water level at transferring destination (as of 7:00 am on January 11)
Process Main Building	O.P.+3,974mm (cumulative elevation of water level:5,191mm), elevated 502mm from 7:00 am on January 10
Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)	O.P.+3,109mm (cumulative elevation of water level:3,835mm), decreased 661mm from 7:00 am on January 10

* From 9:47 to 15:32 on January 11, we transfer accumulated water from On-site Bunker Building to Central Radioactive Waste Treatment Facility [Process Main Building].

Water level of the vertical shaft of the trench, T/B and R/B(As of January 11 at 7:00)

	Vertical Shaft of Trench	T/B	R/B
Unit 1	O.P. <+ 850 mm (No change since 7:00 on January 10)	O.P.+ 3,133 mm (18 mm increase since 7:00 on January 10)	O.P.+ 4,224 mm (4 mm decrease since 7:00 on January 10)
Unit 2	O.P.+ 3,065 mm (92 mm decrease since 7:00 on January 10)	O.P.+ 3,047 mm (83 mm decrease since 7:00 on January 10)	O.P.+ 3,207 mm (79 mm decrease since 7:00 on January 10)
Unit 3	O.P.+ 3,164 mm (13 mm increase since 7:00 on January 10)	O.P.+ 3,123 mm (39 mm increase since 7:00 on January 10)	O.P.+ 3,394 mm (31 mm increase since 7:00 on January 10)
Unit 4	-	O.P.+ 3,107 mm (No change since 7:00 on January 10)	O.P.+ 3,122 mm (No change since 7:00 on January 10)

<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 30 m north from discharge channel of 5-6U, 1F	January 10	8:45	ND	0.05	0.05
Around 330 m south from discharge channel of 1-4U, 1F	January 10	8:25	ND	0.01	0.02
Around discharge channel of 3-4U, 2F	January 10	8:20	ND	0.02	ND

·Others: Samples from one point at the coast(sampled on January 10) and 5 points at offshore of Fukushima Prefecture (sampled on January 9, 2012) and also 6 points at offshore of Miyagi prefecture (sampled on January 4) showed ND for all three major nuclides (Iodine-131, Cs-134,137).

<Cooling of Spent Fuel Pools > (As of January 10 at 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
Unit 1	Circulating Cooling System	Under operation	13.0
Unit 2	Circulating Cooling System	Under operation	13.3
Unit 3	Circulating Cooling System	Under operation	14.2
Unit 4	Circulating Cooling System	Under operation	21

[Unit 4] ·From November 29, 2011, we actuated ion exchange apparatus in order to desalinate water in spent fuel pool.

< Water Injection to Pressure Containment Vessels > (As of January 11 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.4.6 m ³ /h, Core Spray System: Approx.1.7 m ³ /h)	25.3	25.8	106.0 kPaabs
Unit 2	Injecting freshwater (Feed Water System: Approx.2.8 m ³ /h, Core Spray System: Approx.7.1 m ³ /h)	48.1	50.4	110 kPaabs
Unit 3	Injecting freshwater (Feed Water System: Approx.1.0 m ³ /h, Core Spray System: Approx.8.0 m ³ /h)	46.3	55.4	101.6 kPaabs

[Unit 2] · 10:10 on January 10: With preparing the investigation inside the Reactor Containment Vessel of Unit 2, in order to decrease pressure inside PCV, we adjusted Nitrogen injection to PCV from approx. 13 m³/h to approx. 10 m³/h. There are no change on exhaust amount from gas control system of PCV.

[Unit 3] · 10:18 on January 11: We adjusted water injection from the reactor feed water system from approx 1.9 m³/h to 1.0 m³/h, and water injection from the core spray system from approx. 7.0 m³/h to 8.0 m³/h to replacement of the cooling system piping arrangement for the trial run of cooling system piping in Turbine Building.

[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.
- 14:22 on January 9, 2012: At the Spent Sludge Storage Facility (*) of Fukushima Daiichi Nuclear Power Station (1F), a partner company's worker who had been engaged in concrete placement work reported his physical disorder. He was carried to the emergency medical room of 1F's Unit 5/6 and received medical treatment. Because he was in cardiopulmonary arrest, he was carried from 1F to Iwaki Kyouritsu Hospital at 3:25 pm. For reference, no radioactive materials were found to be attached to the worker's body.
- 13:00 on January 11, 2012: Chief contractor reported to us that the worker's death was confirmed by the doctor at 17:02 on January 9.
* Spent Sludge Storage Facility: The facility to store radioactive waste (spent sludge), which is produced during the process of accumulated water treatment, on a temporary basis.
- 10:40 - 12:10 on January 11, 2012: We implemented sampling of the gas in the Gas control system of Unit 2 Reactor Containment Vessel.
- 14:39 on January 11, 2012: In order to prevent from degradation of the facilities for keeping stable state of cold shut down inside the reactor buildings and improving high humidity environment inside the building, we activated the ventilating and air conditioning system of Unit 5*.
- 16:20 We activated the ventilating and air conditioning system of Unit 6*.
* Exhausting air of this air conditioning system was implemented through the high performance particle filter at the air intake side and exhaust side.
- 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.

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