

Plant Status of Fukushima Daiichi Nuclear Power Station

April 29th, 2011
Tokyo Electric Power Company

<Draining Water from Underground Floor in Turbine Building (T/B)>

◇ Transference of water at Unit 2 to Centralized Radiation Waste Treatment Facility

- From 10:08 am, April 19th, transferring water from the vertical shaft of the trench of Unit 2 to the Centralized Radiation Waste Treatment Facility was started.
- At 9:16 am, April 29th, in order to check the transferring facilities and enhance the investigating function, transferring was temporarily suspended (Increase in the water level at the Process Main Building: 1,182mm(as of 9:16 am on April 29th).

◇ Water level at the vertical shaft of the trench and T/B (As of 7:00 am on April 28th)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
Unit 1	1,530mm (O.P. +2,470mm)	O.P. +5,050mm (150mm from the bottom)
Unit 2	900mm (O.P. +3,100mm)	O.P. +3,100mm (1,200mm from the bottom)
Unit 3	940mm (O.P. +3,060mm)	O.P. +3,000mm (1,100mm from the bottom)
Unit 4	—	O.P. +3,050mm (1,200mm from the bottom)

<Contaminated Water Leakage from Unit 2 to the sea>

- On April 6th, the stoppage of water leakage from beneath the supply cable pit was confirmed. Then we have enhanced additional stoppage of water leakage.

◇ Other measures

- From April 11th to April 14th, we installed the silt fences at the north side (the water intake canal) and the south side of breakwaters and in front of the screen of each Unit.
- From April 12th to April 15th, we installed iron plates in front of the screen of Unit 2.
- From April 15th to April 17th, we finished throwing in sandbags with radioactive-material adsorbent (zeolite) in front of the bar screens of Units 1 to 4.

* From now, we will also consider to install steel sheet piles and absorbents of radioactive materials, etc. to around the south breakwaters.

<Injection of Nitrogen Gas to the Primary Containment Vessel of Unit 1 (PCV)>

◇ Injection of nitrogen gas

- From 1:31am, April 7th, we started to inject nitrogen gas to PCV by temporary nitrogen generators.

- At 1:20am, April 7th, before we injected nitrogen gas, the D/W pressure was 156.3kPaabs and the pressure was changed to 114.3kPaabs, at 11:00am, April 29th. The amount of nitrogen gas injected was approx. 14,600m³.

<Monitoring of Radioactive Materials>

◇ Density of Iodine 131 in the seawater (Reference purpose)

Density limit by the announcement of Reactor Regulation: 0.04Bq/cm³

Sampling: Everyday

Sampling Location (seacoast)	Date	Time		Density (Bq/cm ³)		Ratio to Criteria (times)	
Approx. 30m north to Discharge Canal of Units 5 & 6 of Fukushima Daiichi	4/28	9:30	14:40	0.064	0.041	Approx.1.6	Approx.1.0
Approx. 330m south to Discharge Canal of Units 1 to 4 of Fukushima Daiichi.	4/28	9:10	14:00	0.020	0.011	Approx.0.50	Approx.0.28
Around the north Discharge Canal of Fukushima Daini (10km from Fukushima Daiichi)	4/28	8:40		0.016		Approx.0.40	
Around Iwasawa Seashore (approx. 16km from Fukushima Daiichi)	4/28	8:10		0.021		Approx.0.53	

Due to bad weather, no sampling was conducted at 7 offshore locations on April 26th and at all offshore locations on April 27th and 28th.

The density of Iodine 131 in the sub-drain (for reference)

Sampling interval: three times per week (Mon, Wed and Fri)

Sampling Location	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Deep Well
Sampling Date	4/27 10:20	4/27 10:10	4/27 10:00	4/27 11:56	4/27 10:50	4/27 10:40	4/27 8:39
Density (Bq/ cm ³)	55	390	28	0.049	0.041	0.31	Below detection level

<Water Injection and Spraying to Spent Fuel Pools>

◇ Actual Results on April 28th

【Unit 2】10:15am~11:28am Injection of freshwater by Fuel Pool Cooling and Filtering (Clean up) System (approx. 43t).

◇ Plan on April 29th

Injection of freshwater is not planned.

◇ Others

- We are conducting detailed nuclide analysis on the water collected on April 12th from the spent fuel pool of Unit 4.
- We are conducting detailed nuclide analysis on the water collected on April 16th from the skimmer surge tank of Unit 2.
- From April 22nd, we started to examine the level of water and the dose of radiation, etc. of the spent fuel pool of Unit 4.

<Water Injection to Reactor Pressure Vessels>

【Unit 1】 Injecting fresh water:

Reactor pressure vessel temperature:

At 11:00am, April 29th, <Water feed nozzle> 114.7°C

<Bottom of reactor pressure vessel> 95.0°C

【Unit 2】 Injecting fresh water

Reactor pressure vessel temperature:

At 11:00am, April 29th, <Water feed nozzle> 119.2°C

【Unit 3】 Injecting fresh water

Reactor pressure vessel temperature:

At 11:00am, April 29th, <Bottom of reactor pressure vessel> 112.9°C

【Unit 4】 【Common spent fuel pool】No particular changes on parameters.

【Units 5/6】 Reactor cold shutdown. No particular changes on parameters.

- At 10:14am on April 29th, we changed the amount of injecting freshwater to the reactor of Unit 1 from 10 m³/h to 6m³/h.
- From 11:36am to 2:05pm on April 29th, we have checked the status of the 1st floor of the reactor building of Unit 1 and confirmed that there was no significant water leakage from the primary containment vessel.

<Others>

- Since April 26th, we have started spraying the dust inhibitor in full swing (Mountain side area of Unit 5 at a total range of approx. 4,540m² on April 28th; East side of Unit 4 turbine building and mountain side area of Unit 5 at a total range of approx. 11,000m² is planned on April 29th).
- Since April 10th, we have been clearing outdoor rubbles by a remote control.

(On April 28th, the work was conducted)

- By April 19th, we completed the construction work to strengthen the offsite power supply security between Unit 1 & 2 and Unit 3 & 4 (by setting up multiple power sources).
- Since April 26th, aiming to increase the power supply capacity in future as well as to strengthen the insulation, we have started the construction work to strengthen the offsite power security of Unit 3 & 4.
- From April 22nd, we commenced the construction work to strengthen the offsite power supply security between Unit 1 & 2 and Unit 5 & 6 (by setting up multiple power sources).

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