Plant Status of Fukushima Daiichi Nuclear Power Station

June 7, 2011
Tokyo Electric Power Company

<Draining Water on Underground Floor of Turbine Building (T/B)>

Unit	Draining water source −> place transferred	Status
Unit 2	Unit 2 Vertical Shaft of Trench −> Process Main Building of Central Radioactive Waste Treatment Facility (from 10:08 am, April 19 to 4:01 pm, May 26 and from 6:39 pm, June 4)	Increase of water level of Process Main Building: 4,321 mm as of 7:00 am, June 7 (183 mm increase from 7:00 am, June 6)
	Unit 2 Vertical Shaft of Trench -> Unit 2 condenser (from 6:39 pm, June 3 to 12:28 pm, June 4)	
Unit 3	Unit 3 Turbine Building −> Miscellaneous Solid Waste Volume Reduction Treatment Building of Central Radioactive Waste Treatment Facility (from 6:04 pm, May 17～9:10am, May 25)	Increase of water level of Miscellaneous Solid Waste Volume Reduction Treatment Building: 2,963 mm as of 7:00am, June 7 (16 mm increase from 7:00 am, June 6)
	Unit 3 condenser → Unit 3 condensate storage tank (from 12:50 pm, June 2 to 9:56 pm, June 4 and from 6:26pm, June 5)	
Unit 6	Unit 6 Turbine Building →temporary tanks (from May 1 on demand basis, from 2:00 pm, June 2 to 2:00 pm, June 5 and from 2:45 pm, June 5)	

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

	Vertical Shaft of Trench （from top of grating to surface）	T/B
Unit 1	O.P. below +850 mm (>3,150mm) No change from 7:00 am, June 6	O.P. +4,920 mm No change from 7:00 am, June 6
Unit 2	O.P. +3,792 mm (208mm) 7 mm decrease since 7:00 am, June 6	O.P. +3,764 mm 3 mm decrease since 7:00 am, June 6
Unit 3	O.P. +3,810 mm (190 mm) 14 mm decrease since 7:00 am, June 6	O.P. +3,786 mm 20 mm decrease since 7:00 am, June 6
Unit 4	—	O.P. +3,795mm 23 mm decrease since 7:00 am, June 6

- Blockage work at the vertical shaft of trench and pit of Unit 2, 3 underway. (work was completed on June 2. Blockage work at the pit underway.)

<Monitoring of Radioactive Materials>

◇ Nuclide Analysis of Seawater (Reference purpose)

Density limit by the announcement of Reactor Regulation: I-131: 40Bq/L, Cs-134: 60Bq/L, Cs-137: 90Bq/L

Sampling Location	Date	Time	Ratio to Criteria (times)		
			Iodine-131	Cecium-134	Cecium-137
Approx. 30m north to Discharge Canal of Units 5 & 6 of Fukushima Daiichi	6/6	9:05/13:25	ND/ND	0.32/0.20	0.26/0.19
Approx. 330m south to Discharge Canal of Units 1 to 4 of Fukushima Daiichi	6/6	8:55/13:10	ND/ND	0.65/0.33	0.40/0.47
Around the north Discharge Canal of Fukushima Daini (10km from Fukushima Daiichi)	6/6	9:20	ND	ND	ND
Around Iwasawa Seashore, Naraha Town (approx. 16km from Fukushima Daiichi)	6/6	7:55	ND	ND	ND
Approx. 3km from the offshore of northern part of Iwaki City※	6/6	6:00/6:00	ND/ND	ND/ND	ND/ND
Approx. 3km from the offshore of Natsui River of Iwaki City※	6/6	5:40/5:40	ND/ND	0.09/ND	0.05/0.05
Approx. 3km from the offshore of Numanouchi of Iwaki City※	6/6	5:30/5:30	ND/ND	ND/ND	ND/ND
Approx. 3km from the offshore of Toyoma of Iwaki City※	6/6	5:15/5:15	ND/ND	ND/ND	ND/ND
Approx. 15km from the offshore of Ukedo river, Namie Town※	6/6	8:20/8:20	ND/ND	ND/ND	ND/ND
Approx. 15km from the offshore of Fukushima Daiichi※	6/6	9:20/9:20	ND/ND	0.08/ND	ND/ND
Approx. 15km from the offshore of Fukushima Daini※	6/6	7:30/7:30	ND/ND	0.10/ND	ND/ND
Around Iwasawa Seashore, Naraha Town (approx. 15km from Fukushima Daiichi)※	6/6	8:15/8:15	ND/ND	ND/ND	ND/ND
Approx. 15km from the offshore of Minami Soma City※	6/6	8:40/8:40	ND/ND	ND/ND	ND/ND
Approx. 15km from the offshore of Hirono Town※	6/6	7:40/7:40	ND/ND	ND/ND	ND/ND
Approx. 3km from the offshore of Takadokobama Seashore, Ibaraki prefecture※	6/3	8:57/8:54	ND/ND	ND/ND	ND/ND
Approx. 3km from the offshore of Kujihama Seashore, Ibaraki prefecture※	6/4	8:43/8:41	ND/ND	ND/ND	ND/ND
Approx. 3km from the offshore of Oarai Seashore, Ibaraki prefecture※	6/4	13:24/13:30	ND/ND	ND/ND	ND/ND
Approx. 3km from the offshore of Hirai Seashore, Ibaraki prefecture※	6/3	10:40/10:47	ND/ND	ND/ND	ND/ND
Approx. 3km from the offshore of Hasaki Seashore, Ibaraki prefecture※	6/3	7:55/8:00	ND/ND	ND/ND	ND/ND

※ Analyses Results Left numeric: Upper Layer, Right numeric: Lower Layer

<Water Injection and Spraying to Spent Fuel Pools>

◇ Results on June 6

【Unit 4】From 15:56 to 18:35, we sprayed fresh water and hydrazine by a concrete pumping vehicle (approx. 90t).

◇ Plans on June 7

No plan.

◇ Others

- From May 31, cooling using the circulating cooling system for Spent Fuel Pool, Unit 2 is underway.
  Spent fuel pool temperature (17:00 May 31) 70℃ → (11:00 June 7)32℃

<u><Water Injection to Reactor Pressure Vessels></u>

【Unit 1】Injecting fresh water (reactor feed water system: 5.1 m³/h):
At 11:00am, June 7, <Feed-water nozzle> 116.1℃
<Bottom of reactor pressure vessel>99.5℃

【Unit 2】Injecting fresh water (reactor feed water system:5.0m³/h)
At 11:00am, June 7, <Feed-water nozzle> 109.0℃

【Unit 3】Injecting fresh water (reactor feed water system: 11.2～11.5 m³/h)
At 11:00am, June 7, <Bottom of reactor pressure vessel> 182.2℃

- At 10:19 am, May 31, we reduced the amount of water injected to the reactor pressure vessel through the feed water system from 13.5 m³/h to 12.5 m³/h.
- At 10:10 am, June 1, we reduced the amount of water injected to the reactor pressure vessel through the feed water system from 12.5 m³/h to 11.5 m³/h.

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

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

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

◇Injection of nitrogen gas

- From 1:31 am, April 7, we started to inject nitrogen gas to PCV using temporary nitrogen generators.
- Primary Containment Vessel pressure: 156.3 (1:20am, April 7) → 132.1kPaabs, (11:00am, June 7) approx. 40,300m³.

<u><Others></u>

- Since April 10, we have been clearing outdoor rubbles by a remote control to improve working environment.
- Since April 26, we are continuing to spray dust inhibitor in the site of the power station. (On June 6, approx. 8,750m^2. On June 6, spraying around the observing point, etc.).
- From May 9 to June 6, we commenced preparation work for installing support structure into the bottom of fuel spent pool of reactor building of Unit 4.
- Since June 7, installation and construction of post material made of steel are commenced.
- Since May 10, we commenced clearing of rubble in front of carry-in gate for large stuff of reactor building of Unit 3 by using robots.

- Since May 13, preparation work for installation of a cover for the reactor building of Unit 1.
- Since May 30, we have been installing the circulating seawater cleaning system.
- Since June 3, we have been carrying out restoration woks of port related facilities
- Since June 4, large tank for storing contaminated water and treated water are transferring in series.
- Since June 4, setting work for water treatment facility, pipe arrangement / electric work and flow examination are being conducted.
- On June 6, a worker of cooperating company who worked at Incineration Workshop Building, hit left breast (approx. 7:10pm). After examination and treatment at medical room of power station, transferred to J-Village (approx. 8:10pm). Then, transferred to Iwaki Hospital by ambulance (approx. 9:22pm)

END