Plant Status of Fukushima Daiichi Nuclear Power Station

June 11, 2011
Tokyo Electric Power Company

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

◇Construction status of accumulated radioactive water treatment system and storage tank facility

- From June 4, radioactive accumulated water treatment system water flow test is underway
  Big storage tanks for contaminated water and treated water are on passage

[Future plans]

- From June 10, Cesium adsorption Instruments (Kurion) stand-alone commissioning -> Decontamination instruments (AREVA) stand-alone commissioning -> Unite commissioning -> Planned treatment start-up

◇Treatment status of accumulated radioactive water from trenches vertical shafts and basement level of each buildings

Unit	Draining water source -> place transferred	Status
Unit 2	Unit 2 Vertical Shaft of Trench -> Process Main Building of Central Radioactive Waste Treatment Facility (10:08 am, April 19 ～ 4:01 pm, May 26 and 6:39 pm, June 4 ～ 2:20 pm, June 8, 6:03 pm, June 8 ～)	Increase of water level of Process Main Building: 5,085 mm as of 7:00 am, June 11 (228 mm increase from 7:00 am, June 10) Increase of water level of Miscellaneous Solid Waste Volume Reduction Treatment Building: 3,015mm as of 7:00am, June 11 (12 mm increase from 7:00 am, June 10)
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) Unit 3 Turbine Building **->** Process Main Building of Central Radioactive Waste Treatment Facility (3:30pm, June 11～)	
Unit 6	Unit 6 Turbine Building →temporary tanks (from May 1 on demand basis, from 2:45 pm on June 5 to 6:00 pm on June 8, from 9:00 am on June 9 on demand basis, and from 10:00 am to 3:00 pm on June 11)	

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

	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 10	O.P. +4,920 mm No change from 7:00 am, June 10
Unit 2	O.P. +3,750 mm (250mm) 20 mm decrease since 7:00 am, June 10	O.P. +3,720 mm 19 mm decrease since 7:00 am, June 10
Unit 3	O.P. +3,817 mm (183 mm) 23 mm decrease since 7:00 am, June 10	O.P. +3,805 mm 23mm increase since 7:00 am, June 10
Unit 4	—	O.P. +3,793mm 24 mm increase since 7:00 am, June 10

Water level at Unit 1 Reactor Building: as of 7:00 am on June 11, O.P. +4,493mm, 4mm decrease since 7:00 am, June 11

- Blockage work at and pit of Unit 2, 3 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	6/10	9:20/13:30	ND/ND	0.40/0.63	0.24/0.39
Approx. 330m south to Discharge Canal of Units 1 to 4 of Fukushima Daiichi	6/10	9:00/13:50	ND/ND	0.58/0.50	0.34/0.38
Around the north Discharge Canal of Fukushima Daini (10km from Fukushima Daiichi)	6/10	7:50	ND	ND	ND
Around Iwasawa Seashore, Naraha Town (approx. 16km from Fukushima Daiichi)	6/10	7:55	ND	0.27	ND
Approx. 5km from the offshore of Numanouchi, Iwaki City※1	6/10	6:30/6:30	ND/ND	ND/ND	ND/ND
Approx. 15 km from the offshore of Fukushima Daiichi※1	6/10	9:10/9:10	ND/ND	ND/ND	ND/ND
Approx. 15 km from the offshore of Fukushima Daini※1	6/10	8:40/8:40	ND/ND	ND/ND	ND/ND
Approx. 15 km from the offshore of Iwasawa Seashore, Naraha Town※1	6/10	8:10/8:10	ND/ND	ND/ND	ND/ND
Approx. 15 km from the offshore of Hironomachi※1	6/10	7:35/7:35	ND/ND	ND/ND	ND/ND
Approx. 15 km from the offshore of Numanomachi, Iwaki City※2	6/10	7:15/7:15/7:15	ND/ND/ND	ND/ND/ND	ND/ND/ND
Approx.. 30 km from the offshore of Numanomachi, Iwaki City※2	6/10	8:10/8:10/8:10	ND/ND/ND	ND/ND/ND	ND/ND/ND

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

※ 2 Analyses Results Left: Upper Layer, Middle: Middle Layer, Right: Lower Layer

<Water Injection and Spraying to Spent Fuel Pools>

◇ Results on June 9: None

◇ Plan on June 10: None

◇ Others

- From May 31, cooling using the circulating cooling system for Spent Fuel Pool, Unit 2 is underway. Spent fuel pool temperature (5:00 pm May 31) 70℃ → (11:00 am June 11) 32℃

<Water Injection to Reactor Pressure Vessels>

【Unit 1】 Injecting freshwater (reactor feed water system: 5 m³/h):

At 11:00am, June 11, <Feed-water nozzle> 114.9℃

<Bottom of reactor pressure vessel>98.5℃

【Unit 2】 Injecting freshwater (reactor feed water system:5m³/h)

At 11:00am, June 11, <Feed-water nozzle> 108.7℃

【Unit 3】 Injecting freshwater (reactor feed water system: 11.5 m³/h)

At 11:00am, June 11, <Bottom of reactor pressure vessel> 189.2℃

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

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

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

◇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) → 132.3kPaabs, (11:00am, June 11) approx. 43,000m³.

<Others>

- 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 10, approx. 11,750m^2. On June 11, spraying near the observation point).
- 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
- On June 9 Advance inspection of nitrogen injection work to Unit 3 Primary Containment Vessel was implemented (we implemented duct sampling, radiation dose measure by γ camera, etc, within the reactor

building)

- On June 10, we entered the area reactor building (preliminary survey for installation of circulating seawater purification facility)
- On June 11, we started the work to improve inside working environment of Unit 2 Reactor Building.
  At 12:39 pm, we opened air-lock double doors of Reactor Building and started to operate local exhausters from 12:39 pm.

END