Plant Status of Fukushima Daiichi Nuclear Power Station

August 21, 2011 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 ITreatment Facility

[Heatii	neni raciiilyj	
- 6/17	20:00	Full operation started.
- 6/24	12:00	Treatment started at desalination facilities
- 6/27	16:20	Circulating injection cooling started.
- 7/2	18:00	We completed installing buffer tanks and resumed circulating injection cooling via buffer tanks.
- 8/7	16:11	Evaporative Concentration Facility, which was additionally installed to Water Treatment
		Facility to produce fresh water from concentrated seawater generated at Water
		Desalination Facility, has started full operation.
- 8/18	14:43	We started operation of the water treatment facility.
		(We started treatment of accumulated water at series operation including highly concentrated
		radioactive materials by cesium adsorption Instrument, 2 nd cesium adsorption Instrument
		and decontamination instrument)
	15:50	We confirmed flow rate reached normal level ,water treatment facility operated stably and
		operation status had no problem)
- 8/19	14:00	We stopped operation of Water Treatment Facility in order to transition to parallel operation
		of the line from cesium adsorption instrument to decontamination instrument and the line of
		2nd cesium adsorption instrument.
	15:44	We started operation of the line from cesium adsorption instrument to decontamination
		instrument of Water Treatment Facility. At 15:54 the flow rate achieved steady state.
	19:33	We activated second cesium adsorption facility (System B) and started parallel operation.
		At 19:41, the flow rate achieved steady state.
- 8/21	9:30	We additionally started desalination facility (1A, 1B). At 10:30, we confirmed stable
		operation.

[Storage Facility]

From June 8, big 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	
2u	·2u Vertical Shaft of Trench → Central Radioactive Waste Treatment Facility [Process Main Building]	·8/18 16:19 ~ Transferring is in operation	
	· 3u T/B → Central Radioactive Waste Treatment Facility [Process Main Building]	·8/19 8:51 ~ 8/21 9:28 Transferred	
3u	·3u T/B → Central Radioactive Waste Treatment Facility [Miscellaneous Solid Waste Volume Reduction Treatment Building (High temperature incinerator facility)]		
6u	·6u Turbine Building → temporary tanks	·8/21 No transfer	
Ju	·Temporary tanks →Mega Float	· 8/21 No transfer	

Transfer to:	Status of Water Level (as of 7:00 on 8/21)
Process Main Building	Water level: O.P.+ 5,256mm (Accumulated total increase: 6,473mm) 27mm increase from 8/20 7:00
Miscellaneous Solid Waste Volume Reduction Treatment Building (High Temperature Incinerator Building)	Water level: O.P.+ 2,763mm (Accumulated total increase: 3,489mm) 577 mm decrease from 8/20 7:00

^{·8/21 10:21 ~ 14:31} transferred from Site Bunker Building to Process Main Building

Water level at the vertical shaft of the trench and T/B (as of 8/21 7:00)

	Vertical Shaft of Trench (from top of grating to surface)	T/B
1u	O.P. <+850mm (>3,150mm), No change since 8/20 7:00	O.P. +4,920mm, No change since 8/20 7:00
2u	O.P. +3,559mm (441mm), 18mm decrease since 8/20	O.P. +3,578mm, 15mm decrease since 8/20
	7:00	7:00
3u	O.P. +3,675mm (325mm), 5mm decrease since 8/20	O.P. +3,567mm, 11mm decrease since 8/20
	7:00	7:00
4u	-	O.P. +3,580mm, 4mm decrease since 8/20 7:00

[•] Water level at Unit 1 R/B: 8/21 7:00, O.P. +4,629 mm, 24mm increase since 8/20 7:00.

<Monitoring of Radioactive Materials>

Nuclide Analysis of Seawater (Reference)

· 3 main nuclide were not detected from 4 points along the coast and 4 points offshore of Fukushima Prefecture where we sampled sea water.

<Cooling of Spent Fuel Pools> (as of 8/21 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
1u	Circulating Cooling System	Operating from 8/10 11:22	30.5
2u	Circulating Cooling System	Operating from 5/31 17:21	350
3u	Circulating Cooling System	Operating from 6/30 18:33	318
4u	Circulating Cooling System	Operating from 7/31 10:08 ¹	41

<u><Water Injection to Pressure Containment Vessels></u> (as of 8/2111:00)

Unit		Status of injecting water	Temp. of	Bottom of reactor	Pressure of Primary
Offic	feed-water nozzle		pressure vessel	Containment Vessel	
	1u	Injecting freshwater (approx. 3.6m³/h)	96.6	89.5	127.0kPaabs
	2u	Injecting freshwater(approx. 3.7m³/h)	107.2	114.3	116kPaabs
ſ	3u	Injecting freshwater (approx. 8.0m³/h)	108.9	104.7	101.5kPaabs

[Units 4] [Units 5] [Units 6] [Common spent fuel pool] No particular changes in parameters.

<Others>

0 (11010	
- 4/10 ~	Clearance of outdoor rubbles by remote control to improve working conditions.
- 6/3 ~	Restoration works of port related facilities has been under operation.
- 7/12~	Construction work of installing steel pipe sheet pile against water leakage in the water intake channel.
- 6/28 ~	Main construction work for installing the cover for the reactor building of Unit 1
- 8/10	Started setting up iron framework of the cover for the reactor building of Unit 1
- 8/19	We implemented sampling of spent fuel pool water of Unit 1 to 3
- 8/20	We started sampling water in Spent fuel Pool of Unit 4.
	We started trial operation of desalting facility for Unit 4 spent fuel pool at 10:24, and after confirmed no-problems, we started full scale operation at 11:34.

END