## Plant Status of Fukushima Daiichi Nuclear Power Station

October 23, 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

# [Treatment Facility]

-	-	
∙6/17	20:00	Full operation started.
· 6/24	12:00	Treatment started at desalination facilities
· 6/27	16:20	Circulating injection cooling started.
· 8/7	16:11	Evaporative Concentration Facility has started full operation.
•8/19	19:33	We activated second cesium adsorption facility (System B) and started the treatment of accumulated water by the parallel operation of cesium adsorption instrument and decontamination instrument. At 19:41, the flow rate achieved steady state.
·10/19	21:06	In the Water Treatment Facility under operation, a SMZ pump of the 4th process line of cesium adsorption apparatus automatically stopped. Water treatment by the cesium adsorption apparatus is continuously operated at the flow rate approx. 17m3/h.

·10/23 7:52 Due to the alarm indicating the high pressure of the process water in the desalination instrument (RO membranae type: 2-1), it automatically stopped. (RO membranae type: 2-2 was continuously operating.)

8:06 The alarm was reset and the instrument was restarted.

#### [Storage Facility]

•6/8 ~ 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	
Unit 1	· Unit 1T/B Unit 2T/B	·10:35 on October 22 - Transferring	
Unit 2	· Unit 2T/B Central Radioactive Waste Treatment Facility [Process Main Building]	·10:12 on October 20 -Transferring	
Unit 3	· Unit 3T/B Central Radioactive Waste Treatment Facility [ Miscellaneous Solid Waste Volume Reduction Treatment Building(High Temperature Incinerator Building)]		
Unit 6	·Unit 6T/B Temporary tanks	·October 23 - No plan of transfer	
Utill 6	·Temporary tanks Mega float	·October 23 - No plan of transfer	

Place transferred	Status of Water Level (As of October 23 at 7:00)		
Drococo Main Puilding	Water level: O.P.+ 3,147 mm(Accumulated total increase:4,364 mm) 202mm		
Process Main Building	increase since 7:00 on October 22		
Miscellaneous Solid Waste			
Volume Reduction Treatment	Water level: O.P.+ 2,417 mm(Accumulated total increase:3,143 mm) 8mm decrease		
Building	since 7:00 on October 22		
(High Temperature Incinerator	Since 7.00 on October 22		
Building)			

Water level of the vertical shaft of the trench, T/B and R/B(As of October 23 at 7:00)

	Vertical Shaft of Trench	T/B	R/B
	O.P.< + 850 mm	O.P.+ 4,456 mm	O.P.+ 4,447 mm
Unit 1	(No change since 7:00 on	(438mm decrease since 7:00 on	(91mm increase since 7:00 on
	October 22)	October 22)	October 22)
	O.P.+ 2,921 mm	O.P.+ 2,953 mm	O.P.+ 3,039 mm
Unit 2	(8mm decrease since 7:00 on	(7mm decrease since 7:00 on	(18mm decrease since 7:00 on
	October 22)	October 22)	October 22)
	O.P.+ 3,214 mm	O.P.+ 2,979 mm	O.P.+ 3,145 mm
Unit 3	(1mm increase since 7:00 on	(1mm decrease since 7:00 on	(No change since 7:00 on
	October 22)	October 22)	October 22)
		O.P.+ 3,019 mm	O.P.+ 3,039 mm
Unit 4	-	(5mm increase since 7:00 on	(1mm decrease since 7:00 on
		October 22)	October 22)

### <Monitoring of Radioactive Materials>

Nuclide Analysis of Seawater (Reference)

Place of sampling	Date of Time of Ratio			of density limit (times)	
Flace of Sampling	sampling	sampling	I-131	Cs-134	Cs-137
Approx. 30m North of Discharge Channel of 5-6U of 1F	10/22	8:45	ND	1.3	1.2
Approx. 30m North of Discharge Channel of 5-6U of 1F	10/22	14:30	ND	1.0	0.84

<sup>·</sup>Results of nuclide analysis of seawater, sampled on October 22 at 3 points around the Fukushima coastal area are all ND for the 3 major nuclides (iodine-131, cesium-134 and cesium-137).

## <Cooling of Spent Fuel Pools> (As of October 23 at 11:00)

Unit	Cooling type	Status of cooling	Temperature of water in Pool
Unit 1	Circulating Cooling System	Under operation(11:22 on August 10 -)	24.5
Unit 2	Circulating Cooling System	Under operation(17:21 on May 31 -)	28.0
Unit 3	Circulating Cooling System	Under operation(18:33 on June 30 -)	27.0
<u>Unit 4</u>	Circulating Cooling System	Under operation(10:08 on July 31 -)	35

<sup>[</sup>Unit 4]  $\cdot$  8/20 ~ We started operation of desalinating facility of the spent fuel pool.

## <u><Water Injection to Pressure Containment Vessels> (</u>As of October 23 at 11:00)

<u>Unit</u>	Status of injecting water	Feed-water nozzle Temp.	Reactor pressure vessel Bottom temp.	Pressure of primary containment vessel
Unit 1	Injecting freshwater (Feed Water System: Approx. 3.7 m <sup>3</sup> /h)	70.7	72.5	120.3 kPaabs
Unit 2	Injecting freshwater (Feed Water System: Approx. 3.1 m³/h,Core Spray System: Approx. 7.0 m³/h)	74.4	79.6	123 kPaabs
Unit 3	Injecting freshwater (Feed Water System: Approx. 2.1 m³/h,Core Spray System: Approx. 8.1 m³/h)	68.5	71.9	101.5 kPaabs

[Unit 4] [Unit 5] [Unit 6] No particular changes in parameters.

· 4/10 ~	Clearance of outdoor rubbles by remote control to improve working conditions.
·6/28 ~	Main construction work for installing the cover for the reactor building of Unit 1
·8/10 ~ 9/9	Implemented setting up iron framework of the cover for the reactor building of Unit 1
·9/10 ~ 10/14	Implemented installation of panels of the cover for the reactor building of Unit 1
·10/15 ~	Continuously implementing the relating work for the installation of the cover for the reactor
	building of Unit 1.
·10/7 ~	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.

End