Situation of Storage and Treatment of Accumulated Water including Highly Concentrated Radioactive Materials at Fukushima Daiichi Nuclear Power Station (74th Release)

November 21, 2012 Tokyo Electric Power Company

1. Introduction

This document is to report the following matters in accordance with the instruction of "Installment of treatment facility and storing facility of water including highly concentrated radioactive materials at Fukushima Daiichi Nuclear Power Station of the Tokyo Electric Power Company (Instruction) "(NISA No. 6, June 8, 2011), dated on June 9, 2011.

<Instruction>

TEPCO should report to NISA the situation of storing and treatment of the contaminated water in the Power Station and future forecast based upon the current situation have to be reported to NISA as soon as the treatment facility starts its operation. Also, subsequently, continued report has to be submitted to NISA once a week until the treatment of the accumulated water in the Central Radioactive Waste Treatment Facility is completed.

2. Situation of storing and treatment of accumulated water in the building (actual record)

Stored amounts in each unit building (Units 1 to 4 (including condensers and trenches)), and stored and treated amount in the Accumulated Water Storing Facility (including underpass area close to the High Temperature Incinerator Building), and other related data, as of November 20, are shown in the Attachment -1.

3. Forecast of storing and treatment

(1) Short term forecast

Water transfer is planned so that the levels of the accumulated water in Units 1&2 and Units 3&4 building will be maintained around at the level of OP. 3,000, based on the stored amount in the Accumulated Water Storing Facilities and the operating situation of the radioactive material treatment equipment. Water is transferred to the Process Main Building and/or High Temperature Incinerator Building as Accumulated Water Storing Facilities.

Treatment is implemented considering the situation of storage and transfer of Accumulated Water Storing Facilities.

We assume stored amounts in each unit building (Units 1 to 4 (including condenser and trench)),

and stored and treated amount in the Accumulated Water Storing Facilities (including underpass area close to the High Temperature Incinerator Building), and other related data as of November 27, as shown in Attachment -2.

(2) Middle term forecast

Regarding accumulated water in Unit 1&2 building and Unit 3&4 building, from the viewpoint of reducing the risks of discharging to the ocean and leaking into the groundwater, it is necessary to keep enough capacity for the accumulated water in the building until its level reaches OP. 4,000 and to keep the accumulated water level lower than the groundwater level. On the other hand, based on the view of limiting inflow of underwater to buildings and reducing the amount of emerged accumulated water, we are planning to transfer accumulated water keeping its level in the building around OP. 3,000 considering water tank capacity.

As for accumulated water of the Process Main Building and the High Temperature Incinerator Building, we are planning to treat the accumulated water considering the situation of construction of middle and low level waste water tanks, the operation factor of the radioactive material treatment instruments and duration for maintenance.

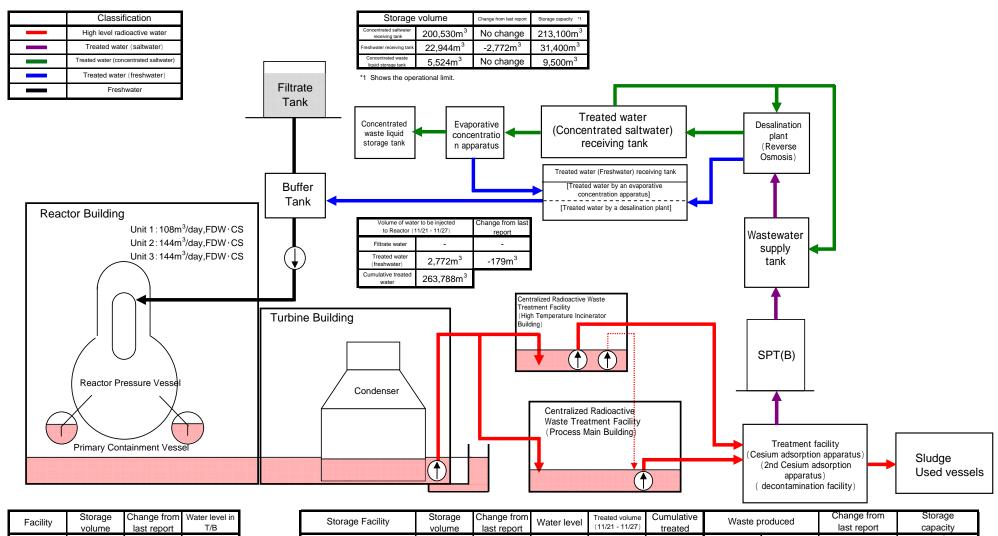
We forecast stored amounts in each unit building (Unit 1 to 4 (including condensers and trenches)), and storing and treatment situations in the Accumulated Water Storing Facilities (including underpass areas close to the High Temperature Incinerator Building) for 3 months, as shown in Attachment -3.

Stored amounts in each building and the water storage equipment are forecasted to be unchanged in case transfer and treatment were implemented as scheduled without rain. However, it would be subject to change depending on the operation factor of the radioactive material treatment instruments and so on.

Also, the water treated at the radioactive material treatment equipment (fresh water and condensed salt water) can be stored in the middle and low level waste water tanks.

END

Storage and treatment of high level radioactive accumulated water (November 27, 2012)



Facility	Storage volume	Change from last report	Water level in T/B		Storage Facility	Storage volume	Change from last report	Water level	Treated volume (11/21 - 11/27)	treated	Waste p	roduced	last report	capacity
Unit 1	Approx.14,100m ³	-100m ³	OP.3,216		Process Main Building	Approx.16,080m ³	+ 980m ³	OP.4,544	Approx.0m ³	Approx.505,990m ³	Sludge	597m ³	No change	700m ³ *1
Unit 2	Approx.23,100m ³	+ 900m ³	(Unit 2 T/B)		High Temperature Incinerator Building	Approx.4,420m ³	+ 790m ³	OP.3,080	*2	*2	Used vessels	460 *3	No change	1,137 *4
Unit 3	Approx.23,800m ³	+ 400m ³	OP.3,058		Total	Approx.20,500m ³		the operational lim			2			
Unit 4	Approx.18,300m ³	+ 800m ³	(Unit 3 T/B)						Imulative treated vo Is of 2nd Cesium a			olume by the 2nd (Cesium adsorption apparate	us.
Total	Approx.79,300m ³			-				•			2nd Cesium adsorpti	on apparatus.		
Note:	from Unit 2 to Unit	3 Turbine Building	uill be temperarily a	wapandad										

Water transfer from Unit 2 to Unit 3 Turbine Building will be temporarily suspended.

- Water transfer from Unit 3 to the High Temperature Incinerator Building was stopped, and the destination of water transfer will be switched to the Process Main Building after water transfer restarting.

Water transfer from Unit 4 to the High Temperature Incinerator Building will be stopped.

- Operation of 2nd Cesium Absorption Apparatus is scheduled: Availability Factor 0% (Projected)

The 2nd Cesium Absorption Apparatus was stopped due to the water lekage from the 2nd Cesium Absorption Apparatus vent line. (Restarting: To be determined.)

- Cesium Absorption Apparatus will be stopped continuously.

- Water transfer fron Unit 1 Turbine Building to Unit 2 Turbine Building will be conducted.

	Accumulated Water Level in Unit	2 T/B [mm] (Unit 1-2 Connected)	
0.P	11/20 Transferred to Linit 2 T/P (1 pump)	A commutate d Waters Level in Linit 2 T/D	
5000	11/20 Transferred to Unit 3 T/B (1 pump) 65mm/d (-480m ³ /d)	Accumulated Water Level in Unit 2 T/B Accumulated Water Level in Unit 2 T/B Taking into Acco	unt the Bainfall (Reference)
		Accompared Water Eeven in Onit 2 175 Faking into Acco	
	Transferred to Unit 3 T/B (1 pump) -65mm/d (-480m ³ /d)	, Transferre	d to Unit 3 T/B (1 pump)
4000	Transferred to Unit 3 T/B (1 pump) -65mm/d (-480m³/d) -65mm/d (-480m³/d) -65mm/d (-480m³/d)		(-480m ³ /d)
3000			
	Transfer to Unit 3 T/B is suspended Transferred to U	nit 3 T/B (2 pumps)	
	Transferred from Unit 1 T/B -130mm/d (-960	m ³ /d) Transferred to	D Unit 3 T/B (2 pumps)
2000		-130mm/d (-9	
	Transfer to Unit 3 T/B is suspended		
	Transfer to Unit 3 1/B is suspended Transferred fro	m Unit 1 1/B	
1000	11/20 OP. 3,084		
	(Unit 2 T/B Water Level)	Transferred from	n Unit 1 T/B
0			
-	/20 11/25 11/30 12/5 12/10 12/15 12/20 12/25 12/30 1/4	1/9 1/14 1/19 1/24 1/29	2/3 2/8 2/13 2/18
O.P	Accumulated Water Level in Unit	3 T/B [mm] (Unit 3-4 Connected)	
0		rred from Unit 4 T/B to the High Temperature Incinerator Buildin	g (1 pump)
5000		d (-480m ³ /d)	
	Transferred from Unit 4 T/B to the High Temperature Incinerator Building (1 pump)		the High Temperature
	-30mm/d (-480m ³ /d) Transferred to the High Temperature Tr	ansfer to the High Temperature Incinerator -30mm/d (-48	uilding (1 pump)
4000		ilding is suspended	
	-30mm/d (-480m ³ /d)	/	
3000	Transferred to the Process Main Building (1 pump) Transfer from Unit 4 T/B to	the High Temperature	
	30mm/d (-480m ³ /d)	ended Transferred to the Process Main Bu	uilding (1 pump)
0000	Transfer to the High Temperature Incinerator Building is suspended	30mm/d (-480m ³ /d)	
2000	Transfer to the High	h Temperature Incinerator Building is suspended	
	Transfer from Unit 4 T/B to the High Temperature Incinerator Building is suspended		
1000	11/20 Transferred from Unit 4 T/B to the High Temperature Incinerator Building (1 pump)	Transfer to the High Temperature Inc	nerator Building is suspended
1000	-30mm/d (-480m ³ /d)		
	11/20 OP. 3,014	 – Accumulated Water Level in Unit 3 T/B Taking into Accord 	unt the Rainfall (Reference)
0	(Unit 3 T/B Water Level)		
	/20 11/25 11/30 12/5 12/10 12/15 12/20 12/25 12/30 1/4	1/9 1/14 1/19 1/24 1/29	2/3 2/8 2/13 2/18
·			
[m ³]	Volume of Water Stored in the Ce	ntral Radioactive Waste Facility	
[m ³] 26000	Volume of Water Stored in the Ce	ntral Radioactive Waste Facility	
	Volume of Water Stored in the Ce	ntral Radioactive Waste Facility	
26000 24000	Volume of Water Stored in the Ce	ntral Radioactive Waste Facility	
26000 24000 22000	Volume of Water Stored in the Ce	ntral Radioactive Waste Facility	
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26000 24000 22000 20000 18000 16000 14000 12000 10000		Cesium Adsorption Cesium Adsorption	Apparatus is suspended
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26000 24000 22000 18000 14000 10000 8000 6000 4000 20000 0 11. 280000 240000 240000 220000 240000	11/20 Cesium Adsorption Apparatus is under suspension 11/20 2nd Cesium Adsorption Apparatus in operation (2 lines) 2nd Cesium Adsorption Apparatus is suspended (2 lines) 2nd Cesium Adsorption Apparatus in operation (2 lines) 2nd Cesium Adsorption Apparatus is under suspending the superstance of the	Cesium Adsorption Apparatus in operation Cesium Adsorption Apparatus in operation Central R/W Storage Amount Process Main Building Storage Amount High Temperature Incinerator Building Storage Amount I/9 1/14 1/19 1/24 1/29 Proceed Concentrated Saltwater Tank	
26000 24000 22000 18000 14000 12000 10000 8000 6000 4000 280000 280000 260000 240000 220000 220000 180000	11/20 Cesium Adsorption Apparatus is under suspension 11/20 2nd Cesium Adsorption Apparatus in operation (2 lines) 2nd Cesium Adsorption Apparatus is suspended (2 lines) 2nd Cesium Adsorption Apparatus in operation (2 lines) 2nd Cesium Adsorption Apparatus is operation (2 lines) 2nd Cesium Adsorption Apparatus is operation (2 lines) 2nd Cesium Adsorption Apparatus is under suspension Capacity and Storage Amount of Concentrated Saltwater (Left Scale) — Treated Water (Concentrated Saltwater) Receiving Tank Storage Amount (Left Scale) — Treated Water Fluid Storage Amount (Right Scale) 11/20 Evaporation Concentration Apparatus is under suspension Desalination Facility (RO system) is suspended under recirculation mode Desalination Facility (RO system) in operation under recirculation mode	Cesium Adsorption Apparatus in operation Cesium Adsorption Apparatus in operation Central R/W Storage Amount Process Main Building Storage Amount High Temperature Incinerator Building Storage Amount I/9 1/14 1/19 1/24 1/29 Proceed Concentrated Saltwater Tank	2/3 2/8 2/13 2/18 [m³] 2000 2000 15000 1000

The treated water volume is assumed to be 900m³/d (Subject to change depending on the level of water accumulated in T/B).
The accumulated water level in T/B is a simulation result in consideration of flactuation of water level such as recent rainfall, inflow of groundwater, and etc.
The accumulated water level in T/B is assumed to increase by 5mm daily, taking into consideration the average rain fall in the surrounding area of Fukushima Daiichi Nuclear Power Station (August-October in the past 3 years).