Situation of Storage and Treatment of Accumulated Water including Highly Concentrated Radioactive Materials at Fukushima Daiichi Nuclear Power Station (365th Release)

August 13, 2018 Tokyo Electric Power Company Holdings, Inc.

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 the future forecast based upon the current situation has 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 amounts, and other related data in the Accumulated Water Storing Facility as of August 9, 2018, are shown in the Attachment -1.

3. Forecast of storing and treatment

(1) Short term forecast

Water transfer in Units 1 and 2 and Units 3 and 4 is planned based on the stored amount in the Accumulated Water Storing Facilities and the operating situation of the radioactive material treatment equipment and the subdrain catchment facility. Water is transferred to the Process Main Building and/or High Temperature Incinerator Building as Accumulated Water Storing Facilities.

Treatment is implemented considering the state 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 amounts, and other related data in the Accumulated Water Storing Facilities as of August 16, 2018, are shown in Attachment -2.

1

(2) Middle term forecast

Regarding accumulated water in Units 1 and 2 buildings and Units 3 and 4 buildings, 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 TP. 2,564 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 specific water-level difference between accumulated water in the building around and subdrain water and making the lowest floor surface of buildings other than Units 1 to 3 reactor buildings where circulating water is injected into exposed by 2020.

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 (Units 1 to 4 (including condensers and trenches)), and storing and treatment situations in the Accumulated Water Storing Facilities for the next 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.

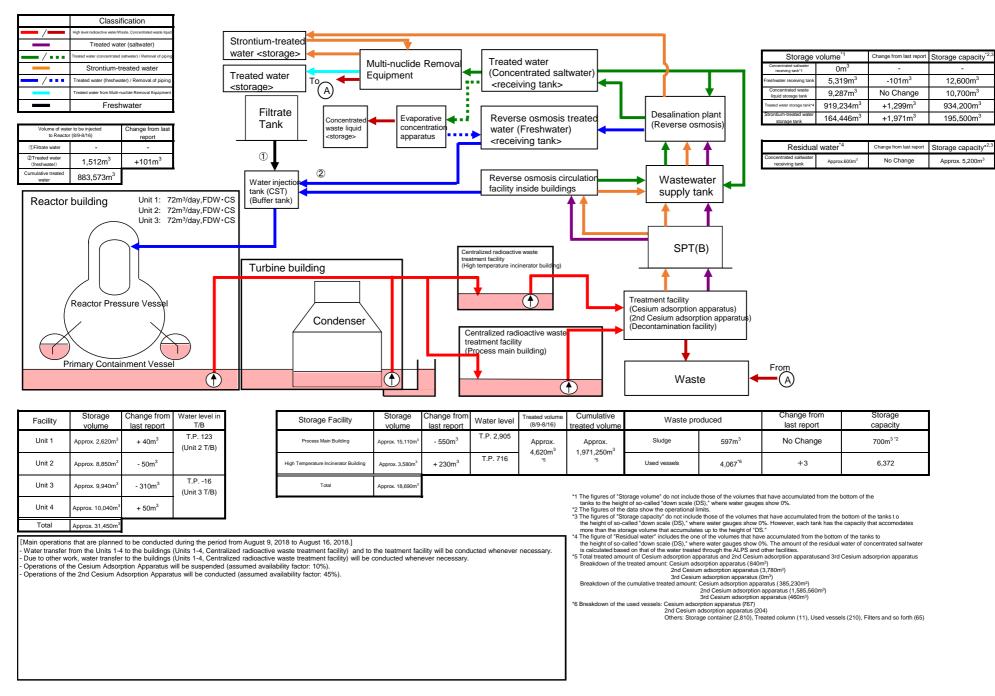
Also, the water treated at the radioactive material treatment equipment (fresh water and condensed salt water) can be stored in the middle and low level waste water tanks.

END

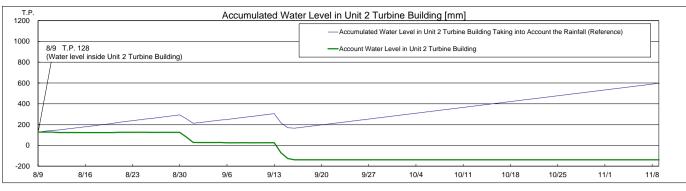
Storage and treatment of high level radioactive accumulated water (as of August 9, 2018)

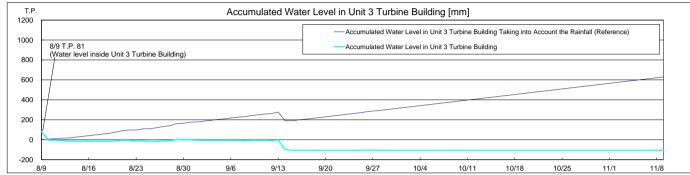
Classification											
High level radioactive water/Waste, Concentrated waste liquid									Storage volume ^{*1,}	2 Change from last report	t Storage capacity*3,4
Treated water (saltwater)	ontium-treated								Concentrated saltwater receiving tank*1 Orr		-
Treated water (concentrated saltwater), pipe removal Wa	ter <storage></storage>								Freshwater receiving tank 5,420		12,600m ³
Strontium-treated water		Multi-nuclide	Removal	Treated	water	votor)			liquid storage tank 9,28		10,700m ³
		Equipment			ing tank>	water)			Treated water storage tank 917,93 Strontium-treated water		934,200m ³
Treated water from Multi-nuclide Removal Facility Freshwater	torage>							<u>+</u>	storage tank 162,47	75m ³ -4,600m ³	195,500m ³
Fleshwale			3						Residual water*5	Change from last report	Character connectitut ^{3,4}
Volume of water to be injected Change from last	Filtrate Tank	Evapor		Revers	e osmosis t	reated	Desalination		Concentrated soltwater tank Approx.		Storage capacity* ^{3,4} Approx. 5,200m ³
to Reactor (8/2-8/9) report	vaste liquid <storage></storage>	concer appara			Freshwater))	(Reverse osr	nosis)	saltwater tank Approx.	No change	Approx. 5,20011
@Transferd uniter A		appura		<receiv< td=""><td>ing tank></td><td></td><td></td><td></td><td>Storage volume</td><td>Change from last report</td><td>Storage volume*3</td></receiv<>	ing tank>				Storage volume	Change from last report	Storage volume*3
(itestiwater)	1								Wastowator		-
Cumulative treated 882,061m ³				Poverse	e osmosis		Mastaw	tor	supply tank 596		1,200m ³
	Water injection tank (CST)				on facility ins	side	Wastewa		SPT(B) 2,033	3m ³ -94m ³	3,100m ³
Reactor building Unit 1: 67m ³ /day,FDW·CS	(Buffer tank)						supply ta				
Unit 2: 67m³/day,FDW CS							↑	1		Chloride	concentration
Unit 3: 67m³/day,FDW+CS									Before/After Desalinatio		(Sampled on July 10)
							_		Before/After Reverse Osmosis C		(Sampled on April 12)
				ntralized radioactive	e waste		SPT(E	3)	Before/After Evaporative Conce	entration	-
	Turbine building			atment facility gh temperature inci	nerator build ng)						
				-		_	↑	†	Place of Sampling	Radioactivit	concentration*6
						- I -		_	Process Main Build	5	Sampled on July 10)
Reactor Pressure Vessel							Treatment facility (Cesium adsorption a	(apparatus)	Exit of cesium adsorption app		impled on February 20)
	Condenser						(2nd Cesium adsorption	ion apparatus)	Exit of decontamination		
	Condenser	$ \ge $	L C	entralized radi	oactive		(Decontamination fac	cility)	Exit of second cesium adsorption a		Sampled on July 10)
			w	aste treatment	t facility						
			()	Process main b	building)		•				
Primary Containment Vessel		<u> </u>		1					From		
()					Ċ		Waste	• 🗖	— (A)		
Facility Storage Change from Water level in	Storage facility	Storage	Change from	Water level	Treated volume	Cumulative	Waste pro	ducad	Change from	Storage	1
volume last report T/B **	Storage raciiity	volume	last report	*8	(8/2-8/9)	treated volume	waste pro	uuceu	last report	capacity	
Unit 1 Approx. 2,580m ³ - 100m ³	Process Main Building	Approx. 15,660m ³	+ 2,200m ³	T.P. 3,078	Approx.	Approx.	Sludge	597m ³	No Change	700m ^{3*3}	
				T D 500	3,200m ³	1,966,630m ³				70011	
Unit 2 Approx. 8,900m ³ + 170m ³ T.P. 128	High Temperature Incinerator Building	Approx. 3,350m ³	+ 770m ³	T.P. 522	• 3,200m ³ •7	1,966,630m ³ ⁺7	Used vessels	4,064 ^{*9}	+7	6,372	
Unit 2 Approx. 8,900m ³ + 170m ³ T.P. 128 Unit 3 Approx. 10,250m ³ - 300m ³ T.P. 81	High Temperature Incinerator Building Total	Approx. 3,350m ³ Approx. 19,010m ³	+ 770m ³	T.P. 522	3,200m ³ ⁺7	*7 *1 Th	e figures of the data are treated as	a reference hecause wat	+7	6,372	
Unit 2 Approx. 8,900m + 170m			+ 770m ³	T.P. 522	3,200m ³ 7	-7 *1 Th *2 Th of Fr	e figures of the data are treated as e figures of the storage volume do the tanks to the height of so-calleo shwater receiving tank (approx. 9	a reference, because wate not include those of the fo "down scale (DS)," where 00m ³). Concentrated wast	+7 r levels during water transfer are not stab llowing volumes that have accumulated fi water gauges show 0%: eliouid storade tank (aporco.100m ³).	6,372	
Unit 3 Approx. 10,250m ³ - 300m ³ T.P. 81 Unit 4 Approx. 9,990m ³ - 350m ³ T.P. 138			+ 770m ³	T.P. 522	3,200m ³ .7	*7 *1 Th *2 Th of Fr Tr Tr	e figures of the data are treated as e figures of the storage volume do the tanks to the height of so-callec setwater receiving tank (approx. 9 aated water storage tank (approx.	a reference, because wate not include those of the fr 'down scale (DS)," where '0m ³), Concentrated wast 1,700m ³), Strontium-treate	+7 r levels during water transfer are not stable liowing volumes that have accumulated for water gauges show 0%: liquid storage tark (approx. 4,00m ³).	6,372 le. com the bottom]
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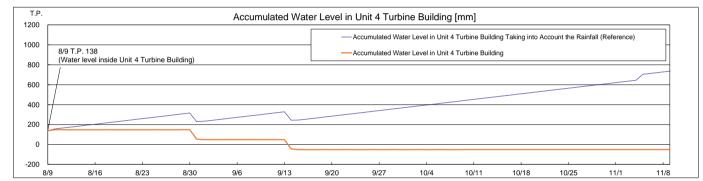
Storage and treatment of high level radioactive accumulated water (as of August 16, 2018)

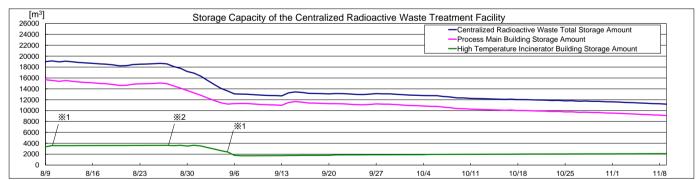


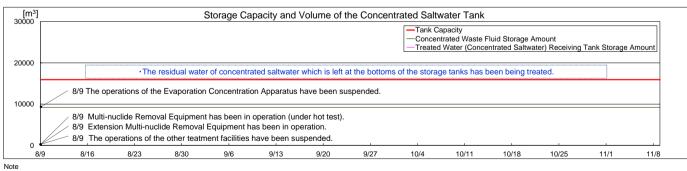
Simulation Results of Accumulated Water Treatment in Units 1-4 Turbine











The amount of water treated through the 2nd Cesium Adsorption Apparatus is estimated to be 780m³/d (Subject to change depending on the factors such as the levels of water accumulated in T/Bs.)
 The amount of water Levels in Unit 2, 3 and 4 T/Bs^{*} are simulated water levels in consideration of the change of the water levels caused by recent rainfall, inflow of groundwater, etc. in the surrounding areas of the Fukushima Daiichi Nuclear Power Station.
 "Accumulated Water Levels in Unit 2, 3 and 4 T/Bs Taking into Account the Rainfall" are simulated water levels which are calculated by adding to the accumulated water amounts which are assumed to increase at the rate of 8mm a day when the surrounding areas of the Fukushima Daiichi Nuclear Power Station have the rainfall equal to the averageamount of rain which fell for three months from August to October in 2015 to 2017.
 Unit 3 Turbine Building water level is controled by retained water transfer pumps in the Unit 2 reactor building.

Unit 3 Turbine Building water level is controled by retained water transfer pumps in the Unit 3 turbine building - Unit 4 Turbine Building water level is controled by retained water transfer pumps in the Unit 4 turbine building

%1 Storage place of water transported from the Units 1-4 will be changed over from the high temperature incinerator building to the process main building.
%2 Storage place of water transported from the Units 1-4 will be changed over from the process main building to the high temperature incinerator building.

Attachment-3