Situation of Storage and Treatment of Accumulated Water including Highly Concentrated Radioactive Materials at Fukushima Daiichi Nuclear Power Station (364th Release)

August 6, 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 2, 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 9, 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

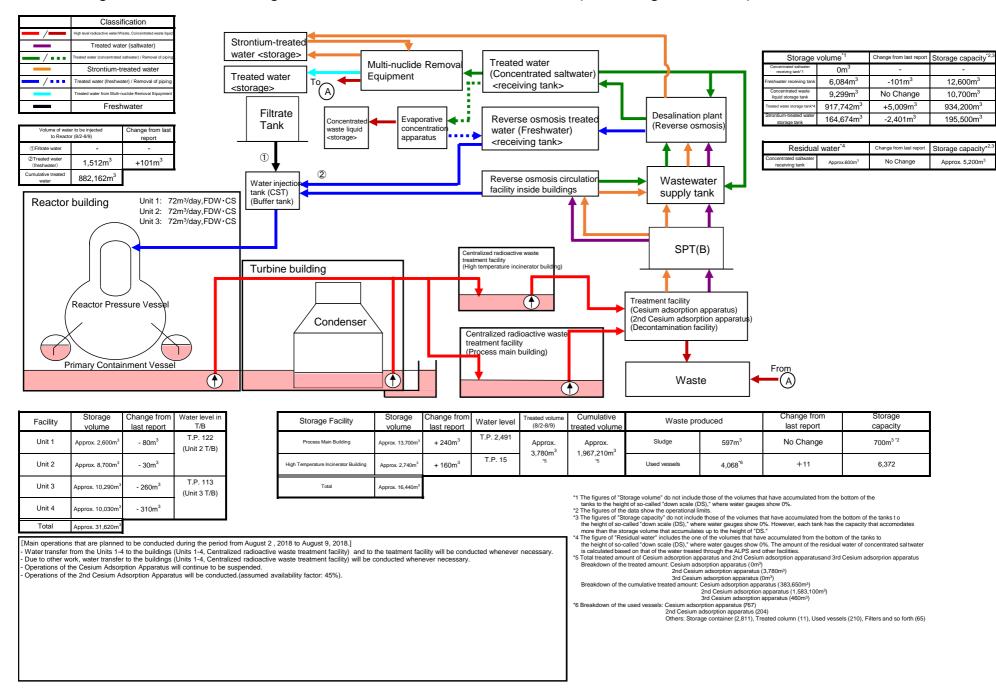
Storage and treatment of high level radioactive accumulated water (as of August 2, 2018)

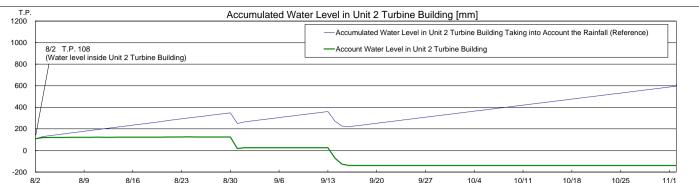
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Class	ification										0	
High level radioactive water/	Waste, Concentrated waste liquid									Storage volume ^{*1}	<u> </u>	8 I J
		Strontium-treated								receiving tank*1 On		-
	ated saltwater), pipe removal	water <storage></storage>		_	Tractor	luctor				Freshwater receiving tank 6,18		12,600m ³
	treated water	Transferdurenten	Multi-nuclide	Removal	Treated	ntrated sali	wator)			Concentrated waste liquid storage tank 9,29	*	10,700m ³
/		Treated water <storage></storage>	Equipment			ing tank>	water)	ſ		Treated water storage tank 912,7 Strontium-treated water		934,200m ³
	Iti-nuclide Removal Facility	<storage></storage>							+ 1	storage tank 167,0	75m ³ -2,525m ³	195,500m ³
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F		Filtrate	entrated Evapo	rotivo	Boyora	e osmosis	troated	Desalination	plant	Residual water*	Change from last report	rt Storage capacity* ^{3,4}
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(2)Treated water (freshwater) 1,411m ³	No Change							♠ ♠	A	Storage volume	Change from last report	rt Storage volume*3
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		Water injection				e osmosis ion facility in	side	Wastewa		SPT(B) 2,12	7m ³ -20m ³	3,100m ³
Depater building	Unit 1: 67m³/day,FDW•C	s (Buffer tank)			Circulati	on facility in	side	supply tag	ank			
Reactor building	Unit 2: 67m³/day,FDW•C						T T					
	Unit 3: 67m³/day,FDW C							T	T		Chloride	concentration
										Before/After Desalination	on 420ppm/1ppm	n (Sampled on July 10)
	\sim)									Before/After Reverse Osmosis	Circulation 260ppm/<1ppn	n (Sampled on April 12)
				Cer	ntralized radioactiv	e waste		SPT(I	B)	Before/After Evaporative Conc	entration	-
		Turbine building			tment facility	inerator building)						
		Turbine building	_				_			Place of Samplin	q Radioactivit	ty concentration ^{*6}
					1					Process Main Build	0	(Sampled on July 10)
					•			Treatment facility		Exit of cesium adsorption ap	0	Sampled on February 20)
Reactor Pre	ssure Vessel					U		(Cesium adsorption	apparatus)	Exit of decontamination		_
		/ Conde	enser					(2nd Cesium adsorp		High Temperature Incinerator		(Sampled on May 14)
	\times			C	entralized radi	ioactive		(Decontamination fa	cility)	Exit of second cesium adsorption		(Sampled on July 10)
					aste treatmen			L				
				(F	Process main b			L L				
Primary Conta	inment Vessel			(F				↓		From		
Primary Conta						ouilding)		Waste		From		
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Facility Storage volume	Change from Water level in last report T/B +9		ity Storage volume	Change from last report	Water level	Treated volume (7/26-8/2)		Waste pro	oduced	Change from last report	capacity]
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Facility Storage volume	Change from Water level in last report T/B * ⁹ - 10m ³ - - 160m ³ T.P. 108		ity Storage volume	Change from last report	Water level *8 T.P. 2,415	Treated volume (7/26-8/2) Approx.	Cumulative treated volume Approx.	Waste pro	oduced	Change from last report	capacity	
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Facility Storage volume Unit 1 Approx. 2,680m ² Unit 2 Approx. 8,730m ² Unit 3 Approx. 10,550m	Change from last report Water level in T/B *8 - 10m ³ - 160m ³ T.P. 108 - 30m ³ T.P. 226	Process Main Buildi High Temperature Incinerati	ity Storage volume ing Approx. 13,460m ³ or Building Approx. 2,580m ³	Change from last report - 530m ³	Water level *8 T.P. 2,415	Treated volume (7/26-8/2) Approx.	Cumulative treated volume Approx. 1,963,430m ³ '7	Waste pro Sludge Used vessels	597m ³ 4,057 ^{°9}	Change from last report No Change +10	capacity 700m ^{3 * 3} 6,372]
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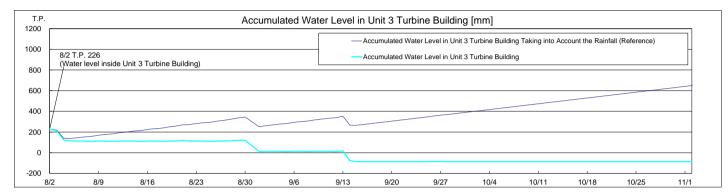
Attachment-1

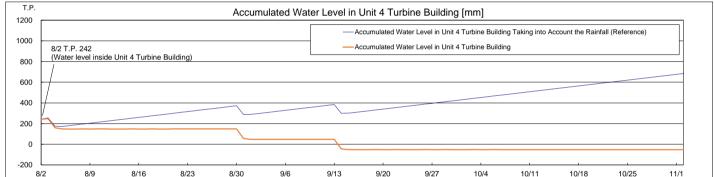
Attachment-2

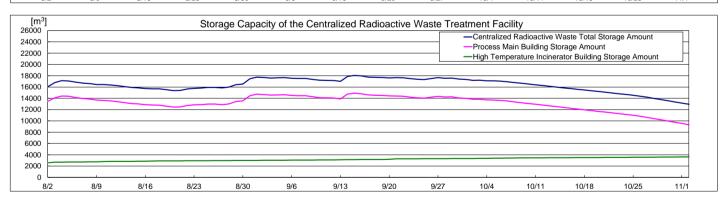
Storage and treatment of high level radioactive accumulated water (as of August 9, 2018)











[m ³] 30000	-	Storage Capacity and Volume of the Concentrated Saltwater Tank											
									trated Waste F	Fluid Storage A entrated Saltwa		Tank Storage	Amount
20000		•The r	esidual water	of concentrat	ed saltwater	which is left a	t the bottoms	of the storag	e tanks has b	een being trea	ated.		
10000	8/2 The ope	erations of the	e Evaporatior	Concentratio	on Apparatus	s have been s	uspended.						
10000	8/2 Multi-nu 8/2 Extensi	uclide Remov	•	has been in e	operation (ur as been in op	nder hot test). peration.	uspended.						

Note

Note - 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.) - "Accumulated Water Levels in Unit 2, 3 and 4 T/Bs" are simulated water levels in consideration of the change of the water level scaused 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 calc ulated by adding to the accumulated water amounts which are assumed to increase at the rate -8mm a day when the surrounding areas of the Fukushima Daiichi Nuclear Power Station have the rainfall equal to the average amount of rain which fell for three months from August to October in 2015 to 2017. - Unit 2 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.