# Situation of Storage and Treatment of Accumulated Water including Highly Concentrated Radioactive Materials at Fukushima Daiichi Nuclear Power Station (307th Release)

June 19, 2017 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 June 15, 2017 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 and 2 and Units 3 and 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 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 June 22, 2017, as shown in Attachment -2.

### (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 (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 TP. 1,564 (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 (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

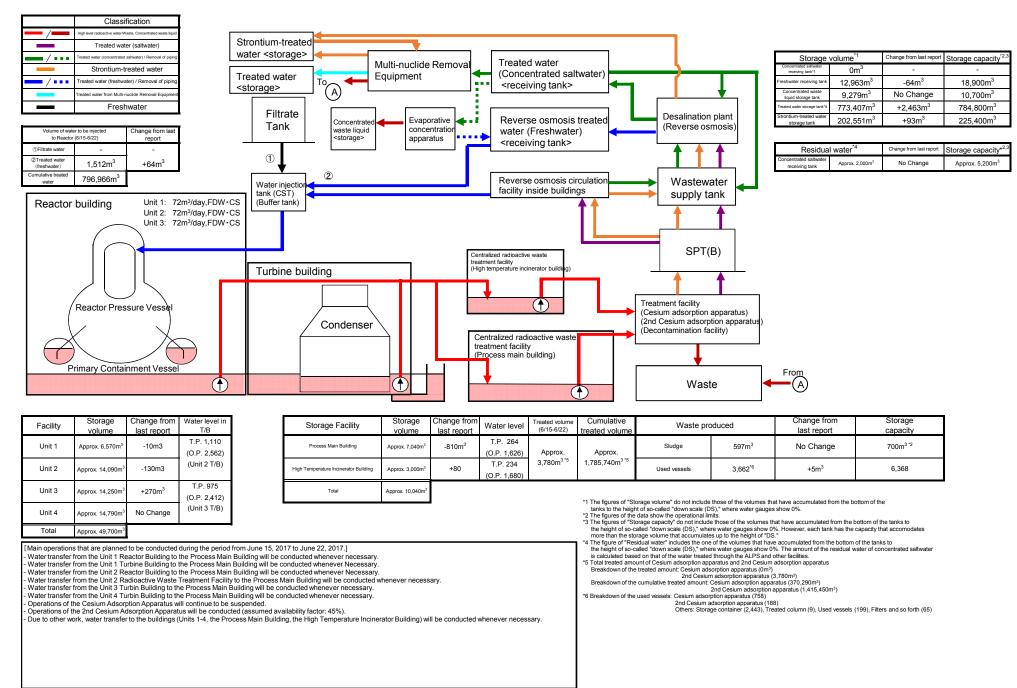
# Storage and treatment of high level radioactive accumulated water (as of June 15, 2017)

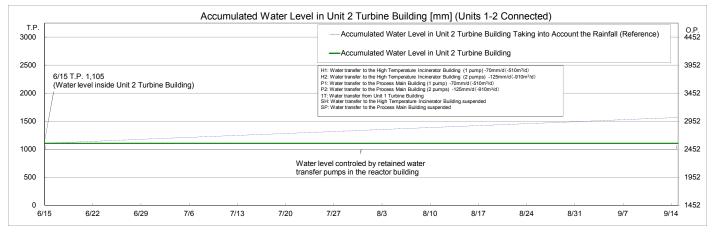
	Classif	fication	1														
/	High level radioactive water/ Wa	aste, Concentrated waste liquit	-										Storage vo	olume <sup>*1,2</sup>	Change from last repo	ort Storage capacity <sup>*3,4</sup>	
	Treated wate	er (saltwater)	St	trontium-tr	reated								Concentrated saltwater receiving tank*1	0m <sup>3</sup>	-	-	
/ • • •	Treated water (concentrate	ed saltwater), pipe remova	wa	ater <stora< td=""><td>age&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Freshwater receiving tank</td><td>13,027m<sup>3</sup></td><td>-144m<sup>3</sup></td><td>18,900m<sup>3</sup></td></stora<>	age>								Freshwater receiving tank	13,027m <sup>3</sup>	-144m <sup>3</sup>	18,900m <sup>3</sup>	
_	Strontium-tr	eated water				/lulti-nuclide	Removal	Treated	l water				Concentrated waste liquid storage tank	9,279m <sup>3</sup>	No Change	10,700m <sup>3</sup>	
/	Treated water (fresh	water), pipe removal	1   Tr	reated wat	ter 🗧 E	Equipment		(Conce	ntrated salt	water)			Treated water storage tank	770.944m <sup>3</sup>	+3.055m <sup>3</sup>	777.800m <sup>3</sup>	
	Treated water from Multi-	-nuclide Removal Facilit		storage>		quipinont			/ing tank>				Strontium-treated water	202,458m <sup>3</sup>	+101m <sup>3</sup>	225,400m <sup>3</sup>	
	Fresh				(A)		:		0			<b>*</b>	storage tank	202,430111	101111	223,40011	
	Flesh	Iwalei	1											*5	1		
			-	Filtra		Evano	orative	Pavore	e osmosis	treated	Desalination	plant	Residual		Change from last report	t Storage capacity* <sup>3,4</sup>	
Volume of w to Read	vater to be injected ctor (6/8-6/15)	Change from last report		Tan	k Concentrated waste liquid		orative		Freshwater		(Reverse osr	mosis)	Concentrated saltwater tank	Approx. 2,000m	<sup>3</sup> No Change	Approx.5,200m <sup>3</sup>	
①Filtrate water	-	-	1		<storage></storage>	appara		• ·		)							
2 Treated water	4 4 40 3	40.3						<receiv< td=""><td>ving tank&gt;</td><td></td><td></td><td></td><td>Storage</td><td></td><td>Change from last report</td><td>t Storage volume*3</td></receiv<>	ving tank>				Storage		Change from last report	t Storage volume*3	
(freshwater)	1,448m <sup>3</sup>	-13m <sup>3</sup>	1	1									9	volume	Change from last report	t Storage volume 3	
Cumulative treated water	<sup>1</sup> 795,454m <sup>3</sup>				2								Wastewater supply tank	768m <sup>3</sup>	+88m <sup>3</sup>	1,200m <sup>3</sup>	
8				Water in				Reverse	e osmosis			ater	SPT(B)	1,354m <sup>3</sup>	-645m <sup>3</sup>	3,100m <sup>3</sup>	
				tank (CS				circulati	ion facility in	side	supply ta	ank		.,		.,	
Reacto	r building	Unit 1: 7	0m <sup>3</sup> /day,FDW • CS	(Buffer ta													
	5	Unit 2: 6	7m <sup>3</sup> /day,FDW • CS								<b>↓</b>	<b></b>					
	$\sim$	Unit 3: 7	0m <sup>3</sup> /day,FDW · CS									1				concentration	
												-	Before/After D	Desalination	350ppm/<1ppm	n (Sampled on April 11)	
	$\left( \begin{array}{c} \end{array} \right)$												Before/After Reverse (	Osmosis Circulatio	n 300ppm/<2ppm	n (Sampled on May 18)	
				<u> </u>			Ce	ntralized radioactive	e waste		SPT(E	B)	Before/After Evapora	ative Concentration		-	
				Turstalis	a la collabora		trea (Hi	tment facility temperature inci	inerator building)						1		
				Turbin	ne building		(	in temperature inte	incrutor building)				Place of S	Sampling	Padiaaativit	v concentration <sup>*6</sup>	
				Î.				٦			T	Т		1 0		(Sampled on May 23)	
													Process Ma	0		,	
	/Reactor Pres	sure Vessel								Treatment facility			Exit of cesium adsorption apparatus 5.1E+02 Bq/L (Sampled on October 13)				
												(2nd Coolum adaptration appareture)			Exit of decontamination facility -		
		$\sim$ /			/ Condenser		_				(Decontamination fac		High Temperature Ir	ncinerator Building	1.9E+07 Bq/L (	(Sampled on March 7)	
	X	X			(			entralized radi					Exit of second cesium a	adsorption apparatus	2.9E+02 Bq/L	(Sampled on May 23)	
	<u> </u>		$ \rightarrow $					aste treatmen									
		$\sim$					(F	Process main I	building)		<b>↓</b>						
	Primary Contain	nment Vesse				<b> </b>	(F	Process main I	building)		· · · · ·		From				
	Primary Contain	nment Vesse						Process main I	building)		↓ \\\(act/		From				
	Primary Contain	nment Vesse						Process main I			Waste	e	From A				
	Primary Contain	nment Vesse				•		Process main I		Ð	Waste	e	$\cdot$				
								•			Waste	e	← (A)		Olasana	_	
Facility	Storage	Change from	Water level in	 	Storage facility	Storage	Change from	Water level	Treated volume	Cumulative	↓ Waste Waste pro		Change from		Storage	1	
			Water level in T/B * <sup>8</sup>	  [	Storage facility			Water level					← (A)		capacity	]	
	Storage	Change from	Water level in		Storage facility Process Main Building	Storage	Change from	Water level	Treated volume (6/8-6/15) Approx.	Cumulative treated volume Approx.			Change from	t	0	]	
Facility	Storage volume	Change from last report	Water level in T/B * <sup>8</sup> T.P. 443 (O.P. 1,900) T.P. 1,105		0 ,	Storage	Change from last report	Water level * <sup>8</sup> T.P. 487 (O.P. 1,849) T.P. 171	Treated volume (6/8-6/15)	Cumulative treated volume	Waste pro	oduced	Change from last report	t	capacity	]	
Facility Unit 1 Unit 2	Storage volume Approx. 6,580m <sup>3</sup> Approx. 14,220m <sup>3</sup>	Change from last report -20m3 -40m3	Water level in T/B * <sup>6</sup> T.P. 443 (0.P. 1,900) T.P. 1,105 (0.P. 2,557)		Process Main Building High Temperature Incinerator Building	Storage volume Approx. 7,850m <sup>3</sup> Approx. 2,920m <sup>3</sup>	Change from last report -1,410m3	Water level * <sup>8</sup> T.P. 487 (O.P. 1,849)	Treated volume (6/8-6/15) Approx.	Cumulative treated volume Approx.	Waste pro	oduced 597m <sup>3</sup>	Change from last report No Change	t	capacity 700m <sup>3 *3</sup>	]	
Facility Unit 1	Storage volume Approx. 6,580m <sup>3</sup>	Change from last report -20m3	Water level in T/B * <sup>6</sup> T.P. 443 (O.P. 1,900) T.P. 1,105 (O.P. 2,557) T.P. 1,014		Process Main Building	Storage volume Approx. 7,850m <sup>3</sup>	Change from last report -1,410m3	Water level * <sup>8</sup> T.P. 487 (O.P. 1,849) T.P. 171	Treated volume (6/8-6/15) Approx.	Cumulative treated volume Approx.	Waste pro Sludge Used vessels	597m <sup>3</sup> 3,657 <sup>*9</sup>	Change fron last report No Change +5m <sup>3</sup>	e	capacity 700m <sup>3 *3</sup> 6,368	]	
Facility Unit 1 Unit 2 Unit 3	Storage volume Approx. 6,580m <sup>3</sup> Approx. 14,220m <sup>3</sup> Approx. 14,520m <sup>3</sup>	Change from last report -20m3 -40m3 +350m <sup>3</sup>	Water level in T/B * <sup>8</sup> T.P. 443 (O.P. 1,900) T.P. 1,105 (O.P. 2,557) T.P. 1,014 (O.P. 2,451)		Process Main Building High Temperature Incinerator Building	Storage volume Approx. 7,850m <sup>3</sup> Approx. 2,920m <sup>3</sup>	Change from last report -1,410m3	Water level * <sup>8</sup> T.P. 487 (O.P. 1,849) T.P. 171	Treated volume (6/8-6/15) Approx.	Cumulative treated volume Approx.	Waste pro Sludge Used vessels	597m <sup>3</sup> 3,657 <sup>*9</sup> ted as a reference, beca me do not include those c called 'down scale (DS).	Change from     last report     No Change     +5m <sup>3</sup>	e ransfer are not stable. %:	capacity 700m <sup>3 *3</sup> 6,368		
Facility Unit 1 Unit 2	Storage volume Approx. 6,580m <sup>3</sup> Approx. 14,220m <sup>3</sup>	Change from last report -20m3 -40m3	Water level in T/B * <sup>8</sup> T.P. 443 (O.P. 1,900) T.P. 1,105 (O.P. 2,557) T.P. 1,014 (O.P. 2,451) T.P. 1,028		Process Main Building High Temperature Incinerator Building	Storage volume Approx. 7,850m <sup>3</sup> Approx. 2,920m <sup>3</sup>	Change from last report -1,410m3	Water level * <sup>8</sup> T.P. 487 (O.P. 1,849) T.P. 171	Treated volume (6/8-6/15) Approx.	Cumulative treated volume Approx.	Waste pro Sludge Used vessels *1 The figures of the data are treat of the tanks to the height of so- Freedwater receiving lank (log	bduced 597m <sup>3</sup> 3,657 <sup>19</sup> India a arference, beca me do not include those c -called "down scale (CD) www.selow.c)	Change from last report No Change +5m <sup>3</sup>	t e ransfer are not stable. ave accumulated from 1 %: pprox.100m <sup>3</sup> ),	capacity 700m <sup>3 *3</sup> 6,368		
Facility Unit 1 Unit 2 Unit 3 Unit 4	Storage volume Approx. 6,580m <sup>3</sup> Approx. 14,220m <sup>3</sup> Approx. 14,520m <sup>3</sup> Approx. 14,790m <sup>3</sup>	Change from last report -20m3 -40m3 +350m <sup>3</sup>	Water level in T/B * <sup>8</sup> T.P. 443 (O.P. 1,900) T.P. 1,105 (O.P. 2,557) T.P. 1,014 (O.P. 2,451)		Process Main Building High Temperature Incinerator Building	Storage volume Approx. 7,850m <sup>3</sup> Approx. 2,920m <sup>3</sup>	Change from last report -1,410m3	Water level * <sup>8</sup> T.P. 487 (O.P. 1,849) T.P. 171	Treated volume (6/8-6/15) Approx.	Cumulative treated volume Approx.	Waste pro     Sludge     Used vessels     '1 The figures of the data are treat     The figures of the data are treat     The figures of the storage volum     of the lanks to the height of os     Freshwater reconvige tank (ap     Traded water storage tank (ap     Traded wat	bduced 597m <sup>3</sup> 3,657 <sup>*9</sup> ted as a reference, beca acide ''oow racia (DS), row, 500m <sup>3</sup> , Storoftun	Change froi last report     No Change     +5m <sup>3</sup>	t e ransfer are not stable. %: pprox.100m <sup>3</sup> ), pprox.4,300m <sup>3</sup> ).	capacity 700m <sup>3 *3</sup> 6,368 the bottom	]	
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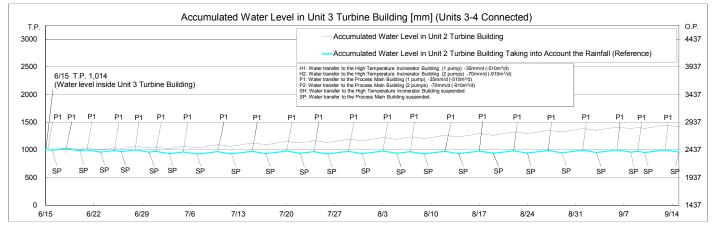
Attachment-1

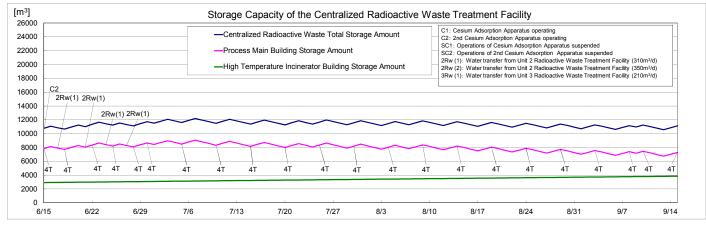
#### Attachment-2

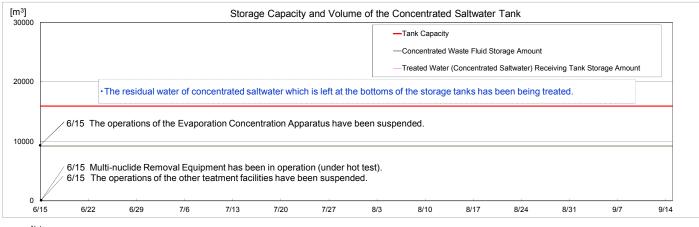
## Storage and treatment of high level radioactive accumulated water (as of June 22, 2017)











Note - The amount of water treated through the 2nd Cesium Adsorption Apparatus is estimated to be 780m<sup>3</sup>/d (Subject to change depending on the factors such as the levels of water accumulated in T/Bs.) - "Accumulated Water Levels in Unit 2 and 3 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 and 3 T/Bs taing 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 5mm 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 2008 to 2010.