Situation of Storage and Treatment of Accumulated Water containing Highly Concentrated Radioactive Materials at Fukushima Daiichi Nuclear Power Station (507th Release)

June 28, 2021 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 containing 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 (Unit 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 24, 2021 are shown in the Attachment -1.

3. Forecast of storing and treatment

(1) Short term forecast

Water transfer in Unit 1 and 2 and Unit 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 (Unit 1 to 4 (including condenser and trench)), and stored and treated amounts, and other related data in the Accumulated Water Storing Facilities as of July 1, 2021 are shown in Attachment -2.

(2) Middle term forecast

Regarding accumulated water in Unit 1 and 2 buildings and Unit 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.

At the same time, in order to suppress the flow of groundwater into buildings and reduce the amount of accumulated water being generated, we are planning to transfer accumulated water from the Unit 1 to 3 reactor buildings, where injected cooling water is being circulated, in accordance with the status of the treatment of accumulated water containing highly concentrated radioactive materials and the amount of water being stored in accumulated water storage facilities, while ensuring a specific difference between the levels of accumulated water in buildings and the water levels of subdrains in the vicinity. At other buildings where the lowermost floors have been exposed, we are planning to transfer accumulated water to keep these floor surfaces exposed.

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 storing and treatment situations in the Accumulated Water Storing Facilities for the next 3 months, as shown in Attachment -3.

Stored amounts in 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

Attachment-1

Storage and treatment of high level radioactive accumulated water (as of June 24, 2021)

•			-						•		,					
Classifi	cation											Storage volume	[m ³] ^{*1,2}	Change from last	Storage capacity [m ³] ^{*3,4}	
High level radioactive water/ Wa	ste Concentrated waste liquid											Concentrated saltwater	0	report [m ³]	Im ³] ^{0,4}	
Treated water (concentrated												receiving tank Freshwater receiving	7,051	-310	12,000	
Strontium ren			rontium ren									Concentrated waste	,		12,000	
		Wa	ater <storaç< td=""><td></td><td></td><td></td><td>Trootor</td><td>lwotor</td><td></td><td></td><td></td><td>liquid storage tank</td><td>9,280</td><td>No Change</td><td>-,</td></storaç<>				Trootor	lwotor				liquid storage tank	9,280	No Change	-,	
Treated water (fresh					/lulti-nuclide l	Removal	Treated	ntrated salt	wator)			tank *12,16	212,514	+2,126	1,232,000	
Treated water from Multi-r	-		reated wa	ter To - E	quipment			/ing tank>	water)			tank *14,16	7,428	+248	11,600	
Fresh	water	<	storage>	``@` └								tarik (Reuse) 15,16	26,215	No Change	94,000	
												Strontium removed , water storage tank *10	17,450	-1,427	27,600	
			Filtr	ate	_					Desalination	nlant					
Volume of water to be injected to Reactor [m ³] (6/17-6/24)	Change from last report (m ³)		Tan	k Concentrated waste liquid	Evapor concen			e osmosis t		(Reverse os		Residual water	r [m ³] *5	Change from last report [m ³]	Storage capacity [m ³] * ^{3,4}	
①Filtrate water —	report Im ⁻ I			<pre><storage></storage></pre>	appara			Freshwater		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		prox.300	No Change	Approx.2,100	
	-						<receiv< td=""><td>ing tank></td><td></td><td></td><td></td><td>saltwater tank AP</td><td></td><td>,</td><td></td></receiv<>	ing tank>				saltwater tank AP		,		
(2)Treated water (freshwater) 1,579	+3		1							T		*13,16	0	No Change	0	
Cumulative treated 1,105,270				<u> </u>						_		Strontium removed water tank *11	0	No Change	0	
Wate			Water inj	(2)			Revers	e osmosis		Wastewa	ater	water tarik 11		-		
			tank (CS					ion facility in	side	supply ta		Storage volum	e (m ³)	Change from last report [m3	Storage volume [m3] *3	
Reactor building		1 m³/day,FDW •CS		ańk)								Wastewater	590	+71	1,200	
5		2 m³/day,FDW •CS								↑		supply tank			-	
	Unit 3: 70) m³/day,FDW •CS										SPT(B)	692	+30	3,100	
			İ											Oblasida		
	\mathbf{z}					_				SPT(B)			Chloride concentration		
			treatme					ralized radioactive waste					Before/After Desalination 130ppm/5ppm (Sampled on May 11, 20			
			Turbir	ne building		(Hig	gh temperature incinera	temperature incinerator building)					Before/After Reverse Osmosis Circulation 480ppm/3ppm (Sampled on Feb 6, 2020)			
			11 -				-			↑		Before/After Evaporative	Concentration		-	
	\mathcal{I}						+									
Reactor Press								Treatment facility (Cesium adsorption apparatus) (2nd Cesium adsorption apparatus) (3rd Cesium adsorption apparatus) (3rd Cesium adsorption apparatus) (Decontamination facility)					Place of Sampling Radioactivity concentration ^{*6}			
													Process Main Building 1.3E+07 Bq/L (Sampled on May 11, 20			
													Exit of cesium adsorption apparatus 3.8E+03 Bq/L (Sampled on Mar 22, 2			
	X	\sim											Exit of decontamination facility -			
							waste treatment facility (Process main building)					High Temperature Incine	erator Building	3.3E+07 Bq/L (San	npled on Apr 12, 2021)	
	<u> </u>						FIDCESS Main	building)		*		Exit of second cesium adsor	rption apparatus	2.3E+02 Bq/L (Sa	npled on Apr 6, 2021)	
Primary Contain	ment Vessel	•					1					Exit of third cesium adsorp	tion apparatus	4.3E+02 Bq/L (San	pled on May 11, 2021)	
										Waste	e l	From				
		\bigcirc				111		(\mathbf{b}		·	(A)				
												0				
Storage	Change from	Water level in	ī	.	Storage volume	Change from	Water level	Treated volume	Cumulative treated	1		Change from		Storage	1	
Facility volume [m ³]	last report	T/B * ⁸		Storage facility	[m ³]	last report [m3]	*8	(6/17-6/24)	volume [m ³]	Waste pro	oduced	last report		capacity		
Unit 1 Approx.1,090	No Change	—		Process Main Building	Approx.4,870	-110	T.P594	Approx. 2,300	Approx. 2,420,750	Sludge [m ³]	421 *17	-19		700 *3		
Unit 2 Approx.1,840	-110	_		High Temperature	Approx.1,880	+10	T.P696	*7	*7	Used vessels	5,155 *9	+8		6,372		
			ļ	Incinerator Building						0000 1000010	0,100 0	10		3,372		
Unit 3 Approx.2,010	-20	-		Total	Approx.6,750		*1 TI	he figures of the da	ta are treated as a re	eference, because water levels	during water transfer a	re not stable.				
							*2 T	he figures of the ste	orage volume do not	include those of the following v	olumes that have accu	mulated from the bottom				
Unit 4 Approx.10	No Change	—					F	reshwater receiving	tank (approx. 100m	wn scale (DS)," where water ga 3), Concentrated waste liquid s	torage tank (approx.10		tank (approx. 2	2,200m ³)		
	5						т	reated water storage		ox. 0m3), Strontium removed w						
Total Approx.4,950							*4 T	he figures of "Stora	ge capacity" do not ir	nclude those of the volumes the	at have accumulated fr	om the bottom of the tanks to				
				04.00041			n n	nore than the storage	e volume that accun	" where water gauges show 0% nulates up to the height of "DS.			nodates			
[Main operations that have been cor - Water transfer from the Units 1-4 t					o trootmont fo - 184		*5 TI	he figure of "Residu	al water" includes th	e one of the volumes that have "where water gauges show 0%	accumulated from the	bottom of the tanks to				
 water transfer from the Units 1-4 t conducted whenever necessary. 	o une buildings (U	mits 1-4, Centralized f	auioactive was	ste treatment raciities) and to tr	e reatment racilitie	es was	s	altwater is calculate	d based on that of th	ne water treated through the AL		state water or concelleded				
conducted whenever necessary.							*6 T	he data shown here	are those of Cs-137	r						

Due to other works, water transfer to the buildings (Units 1-4, Centralized radioactive waste treatment facilities) was conducted whenever necessary.

Operations of the Cesium Adsorption Apparatus have been suspended.

- Operations of the 2nd Cesium Adsorption Apparatus have been suspended.

- Operations of the 3rd Cesium Adsorption Apparatus have been conducted; the availability factor is 55% (previous simulated : 55%).

*7 Total treated amount of Cesium adsorption apparatus and 2nd Cesium adsorption apparatus and 3rd Cesium adsorption apparatus. Breakdown of the treated amount: Cesium adsorption apparatus (0m³) 2nd Cesium adsorption apparatus (0m³)

3rd Cesium adsorption apparatus (2,300m3)

Breakdown of the cumulative treated amount: Cesium adsorption apparatus (394,720m³) 2nd Cesium adsorption apparatus (1,943,780m³)

3rd Cesium adsorption apparatus (82,250 m³) 3rd Cesium adsorption apparatus (82,250 m³) *8 The data of the water levels in the Reactor Buildings are the data as of 5 a.m., June 24

*8 The data of the water levels in the Reactor Buildings are the data as of 5 a.m., June 24
*8 The data of the water levels: Cesium adsorption apparatus (779), 2nd Cesium adsorption apparatus (244), 3rd Cesium adsorption apparatus (9)
Others: Storage container (3,808), Treated column (17), Used vessel (233), Filters and so forth (65)
*10 Volume of the Strontium removed water stored in the welded-type tanks
*11 Volume of the Strontium removed water remaining in the flange-type tanks
*12 Volume of the *1APS treated water 'and 'treated water 'and 'treated water to be repurified' stored in the welded-type tanks
*13 Volume of the 'treated water to be repurified' stored in the flange-type tanks
*14 Volume of the 'treated water be the repurified' stored in the flange-type tanks
*14 Volume of the 'treated water be the repurified' stored in the flange-type tanks
*14 Volume of the 'treated water be the repurified' stored in the flange-type tanks
*14 Volume of the 'treated water be the repurified' stored in the flange-type tanks (flange-type), the additional ALPS temporary storage tanks (welded-type)
*15 Volume of the 'treated water to be repurified' stored in the results' welded-type tanks (flange-type), the additional ALPS temporary storage tanks (welded-type)
*15 Volume of the 'treated water to be repurified' stored in the result welded-type tanks which stored Strontium removed water before.
These welded-type tanks have been repurified' stored in the result welded-type tanks which stored Strontium removed water before.

These welded type tanks have been reused from 2019.) *16 The volume of the "ALPS treated water (reuse) and treated water (residual). *16 The volume of the "ALPS treated water (etc." is the sum of the storage volume in each column of treated water, sample water, treated water (reuse) and treated water (residual). *17 Sum of sludge and supernatant water (as of 9 a.m., June 24)

Attachment-2

orage capa [m³] ^{*2,3} 12,000

10.300 1,232,000 11.600 94,000

27,600

torage capac [m³1^{*2,3}

Approx.2,100 0

0

Storage and treatment of high level radioactive accumulated water (as of July 1, 2021)

			-												Change from last
	Classification											9	lume [m ³] *1		
	/	High level radioactive water/ Waste, Concentrated waste li		troptium romov	ad								receiving tank	-	-
	/	Treated water (concentrated saltwater), pipe remo	val		eu								tank	,	
		Strontium removed water	Ľ.			مامنام بمرافقا بال	Demovia	Treate	d water				liquid storage tank	9,280	No Change
	/••••	Treated water (freshwater), pipe remove	/al				Remova			twater)			tank *9,13	1,215,376	+2,862
		Treated water from Multi-nuclide Removal Fac	lity			_quipinent							tank *11,13	8,641	+1,213
		Freshwater		sionage>	(A) └_								Treated water storage tank (Reuse) *12.13	26,215	No Change
			_										Strontium removed water storage tank *7	14,510	-2,940
						Evapo	orative								
			st	Tank	waste liquid	conce	ntration	water ((Reverse os	smosis)	Residual w	ater [m ³] *4	
			-		<storage></storage>	appar	atus	<receiv< td=""><td>ing tank></td><td></td><td></td><td></td><td></td><td></td><td></td></receiv<>	ing tank>						
				1							T		receiving tank	Approx.300	No Change
user 1, 400,000 user text 0 100,000 Water injection Water injection Water injection Water injection Water injection Reactor building Unit 1: 84 milding, FDW-CS Water injection Water injection SPT(8) SPT(8) Unit 3: 72 milding, FDW-CS Unit 3: 72 milding, FDW-CS Condense SPT(8) SPT(8) SPT(8) Financy Containment Vessel Condense Condense Storage from Water invent facility inside mannee SPT(8) Financy Containment facility inside mannee Financy Containment Vessel Storage facility and mannee Storage from Water invent facility inside mannee Financy Containment Vessel Storage facility and mannee Storage from Water invent facility inside mannee Water invent mannee Water invent mannee Munit 1 Approx.1110 2.20 Total Process Main Building Approx.420 Other happ form Water invent facility inside form Mannee Water invent facility inside form Mannee No Change from Water invent facility inside form Mannee No Change form Mannee No Change form Mannee No Chang		1,596 +17												0	No Change
Image: Storage Contained in Table report. Storage Facility Storage facility and the report. Image: Storage facility		ⁱ 1.106.866									Westow	otor		0	No Change
Reactor building Unit 1: 84 m/day, EWV-CS Unit 2: 87 m/day, EWV-CS Unit 2: 87 m/day, EWV-CS Unit 2: 72 m/day, EWV-CS Unit 2: 72 m/day, EWV-CS Unit 2: 72 m/day, EWV-CS ST(B) Reactor Pressure Vessel Unit 3: 72 m/day, EWV-CS Unit 1: 64 m/day, EWV-CS ST(B) Reactor Pressure Vessel Unit 1: 64 m/day, EWV-CS Unit 1: 64 m/day, EWV-CS ST(B) Reactor Pressure Vessel Unit 1: 64 m/day, EWV-CS Unit 1: 64 m/day, EWV-CS ST(B) Reactor Pressure Vessel Unit 1: 64 m/day, EWV-CS Unit 1: 64 m/day, EWV-CS Storage Tadoox Reactor Pressure Vessel Unit 1: 64 m/day, EWV-CS Unit 1: 64 m/day, EWV-CS Storage Tadoox Visite Tadoox Unit 1: 64 m/day, EWV-CS Unit 1: 64 m/day, EWV-CS Storage Tadoox Visite Tadoox Unit 1: 64 m/day, EWV-CS Unit 1: 64 m/day, EWV-CS Unit 1: 64 m/day, EWV-CS Visite Tadoox Unit 1: 64 m/day, EWV-CS Unit 1: 64 m/day, EWV-CS Unit 1: 64 m/day, EWV-CS Visite Tadoox Tradia Storage Tadoox Unit 1: 64 m/day, EWV-CS Unit 1: 64 m/day, EWV-CS Visite Tadoox Tradia Storage Tadoox Unit 1: 64 m/day, EWV-CS Unit 1: 64 m/day, EWV-CS Visite Tadoox <td>water</td> <td>,,</td> <td></td> <td>Water injecti</td> <td>on</td> <td></td> <td></td> <td></td> <td></td> <td>oido</td> <td></td> <td></td> <td>water tarik o</td> <td></td> <td>Ŭ</td>	water	,,		Water injecti	on					oido			water tarik o		Ŭ
	Reactor	r building Unit 1:	84 m3/day,FDW · C					circula	tion facility in	Iside	supply t	ank			
										T					
Facility Storage Condense		Unit 3:	72 m3/day,FDW · C	s											
Facility Storage Condense															
Facility Storage Condense		(\frown)													
Facility Storage Condenser Condenser Freedom (1/2) Condenser Condenser Primary Containment Vessel Condenser Condenser Condenser Condenser Condenser Value Condenser Condenser Condenser Condenser Condenser Value Value Condenser Condenser Condenser Condenser Condenser Value Value Condenser Condenser </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>e waste</td> <td></td> <td>SPT(</td> <td>(B)</td> <td></td> <td></td> <td></td>									e waste		SPT((B)			
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Primary Containment Vessel Image: Containment Vessel Image		X X	Centralized radioactive (Decontamination facility)												
Primary Containment Vessel From Primary Containment Vessel Image: Storage Change from Water level in the storage from the storage															
Facility Storage Change from Water level in Unit 1 Approx.1,110 + 20 - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>(P</td> <td>rocess main</td> <td>building)</td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td>							(P	rocess main	building)		•				
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Facility Storage Change from Water level in Image: Change from Water level in Treated volume [m] Agerox 1, 10 -20 -			(Ť)				_				Was	te 🖌	- A		
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Facility volume [m³] last report T/B Unit 1 Approx.1,110 + 20 - Unit 2 Approx.1,840 No Change - Unit 3 Approx.2,010 No Change - Unit 4 Approx.10 No Change - Unit 4 Approx.10 No Change - Unit 4 Approx.10 No Change - Unit 4 Approx.4,970 -	F	Storage Change from	n Water level in		Otomo na Espellite	Storage	Change from	M	Treated volume	Cumulative treated	Masta an		Change fro	om	Storage
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Unit 2 Approx.1,840 No Change Incinerator Building Approx.1,880 No Change Used vessels 5,163*6 +8 6,372 Unit 3 Approx.2,010 No Change - Total Approx.6,620 *1 The figures of 'Storage volume' do not include those of the volumes that have accumulated from the bottom of the tanks to the height of so-called 'down scale (DS),' where water gauges show 0%. *2 The figures of 'Storage volume' do not include those of the volumes that have accumulated from the bottom of the tanks to the height of so-called 'down scale (DS),' where water gauges show 0%. However, each tank has the capacity that accommodates more than the strage volume that accumulates in the strage volume that accumulates from the bottom of the tanks to the height of the so-called 'down scale (DS),' where water gauges show 0%. However, each tank has the capacity that accommodates more than the strage volume that accumulates for the totam of the tanks to the height of the so-called 'down scale (DS),' where water gauges show 0%. However, each tank has the capacity that accommodates more than the strage volume that accumulates for the totam of the tanks to the tanks to the height of the so-called 'down scale (DS),' where water gauges show 0%. However, each tank has the capacity that accommodates more than the strage volume that accumulates for the tanks to the tanks to the tanks to the height of the so-called 'down scale (DS),' where water gauges show 0%. The amount of the tanks to the height of cover scale (DS),' where water gauges show 0%. The amount of the tanks to the height of cover scale (DS),' where water gauges show 0%. The amount of the tanks to the height of cover scale (DS),' where water gauges show 0%. The amount of the tanks to the height of the so-	Office 1	Approx.1,110 120			Tocess Main Duliding	7001024,740	150		2,520	2,423,270	Sludge [III]	721	No onan	gc	100 2
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*4 The figure of "Residual water" includes the one of the volumes that have accumulated from the bottom of the tanks to the height of so-called "down scale (DS)," where water gauges show 0%. The amount of the residual water of concentrated saltwater									the height of	so-called "down scale (E	DS)," where water gauges	show 0%. However, ead	nated from the bottom ch tank has the capaci	or the tanks to ty that accommodat	es
the height of so-called "down scale (DS)," where we have a down and the residual water of concentrated satiwater	Total	Approx.4,970							*4 The figure of	"Residual water" include	s the one of the volumes t	hat have accumulated f	rom the bottom of the	tanks to	
									the height of	so-called "down scale (E	DS)," where water gauges	show 0%. The amount	of the residual water o	f concentrated saltw	vater

[Main operations that are planned to be conducted during the period from June 24, 2021 to July 1, 2021]

Water transfer from the Units 1-4 to the buildings (Units 1-4, Centralized radioactive waste treatment facilities) and to the treatment facilities will be conducted whenever necessary.

- Due to other works, water transfer to the buildings (Units 1-4, Centralized radioactive waste treatment facilities) will be conducted whenever necessary.

- Operations of the Cesium Adsorption Apparatus will continue to be suspended.

Operations of the 2nd Cesium Adsorption Apparatus will continue to be suspended.

Operations of the 3rd Cesium Adsorption Apparatus will be conducted (assumed availability factor : 60%).

is calculated based on that of the water treated through the ALPS and other facilities. *5 Total treated amount of Cesium adsorption apparatus and 2nd Cesium adsorption apparatus and 3rd Cesium adsorption apparatus

Breakdown of the treated amount: Cesium adsorption apparatus (0m³) 2nd Cesium adsorption apparatus (0m³)

3rd Cesium adsorption apparatus (3(,520m³) Breakdown of the cumulative treated amount: Cesium adsorption apparatus (34,720m³) 2nd Cesium adsorption apparatus (1,943,780m³)

3rd Cesium adsorption apparatus (84,770m3)

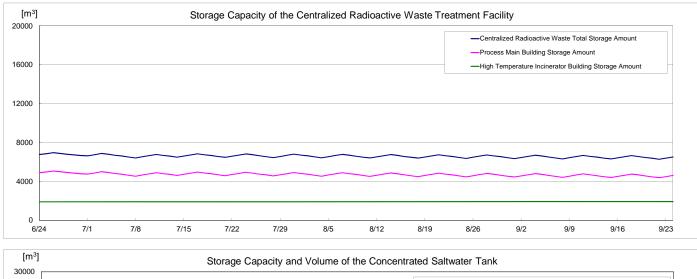
*6 Breakdown of the used vessels: Cesium adsorption apparatus (779)

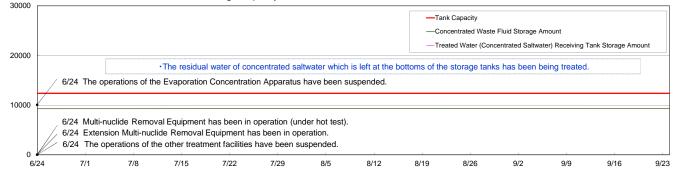
*5 breakdown of the used vessels: Cesum adsorption apparatus (7/9) 2nd Cesium adsorption apparatus (244) 3rd Cesium adsorption apparatus (24) Others: Storage container (3,816), Treated column (17), Used vessels (233), Filters and so forth (65) *7 Volume of the Strontium removed water stored in the welded-type tanks

Volume of the Storburn encode water storburn in weaker-type tanks Volume of the Storburn encode water encode water encode water base of the Storburn encode water and the storburn encode water encode water to be re-purified "stored in the welded-type tanks 10 volume of the "treated water to be re-purified" encoding in the flange-type tanks 11 volume of the "treated water to be re-purified" encoding in the flange-type tanks 11 volume of the "treated water to be re-purified" stored in the ALPS sample tanks (flange-type), the additional ALPS temporary storage tanks (welded-type) and the high performance ALPS temporary storage tanks (welded-type)

*12 Volume of the "treated water to be re-purified" stored in the reuse welded-type tanks which stored Strontium removed water before. (These welded-type tanks have been reused from 2019.)

*13 The solution of the *LPS treated water, etc." is the sum of the storage volume of each column of treated water, sample water, treated water (reuse) and treated water (residual).





Note - The amount of water treated through the treatment facilities is changed depending on the factors such as stored amount in the accumulated water storing facilities.