Situation of Storage and Treatment of Accumulated Water including Highly Concentrated Radioactive Materials at Fukushima Daiichi Nuclear Power Station (333rd Release)

December 18, 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 December 14, 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 TP. 1,564, 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 December 21, 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 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 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.

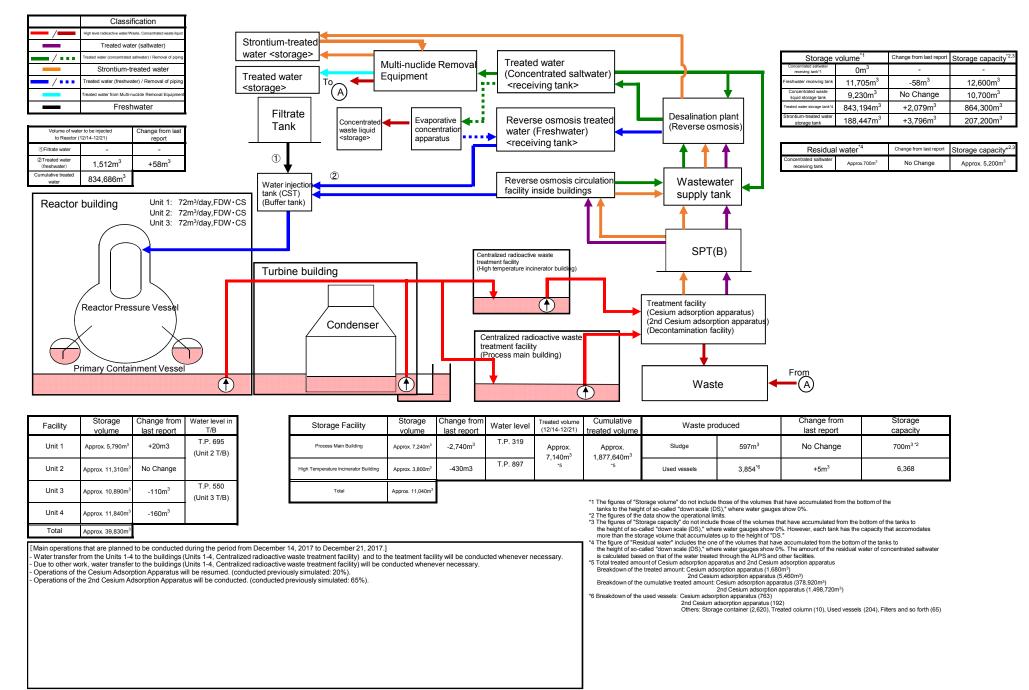
END

Storage and treatment of high level radioactive accumulated water (as of December 14, 2017)

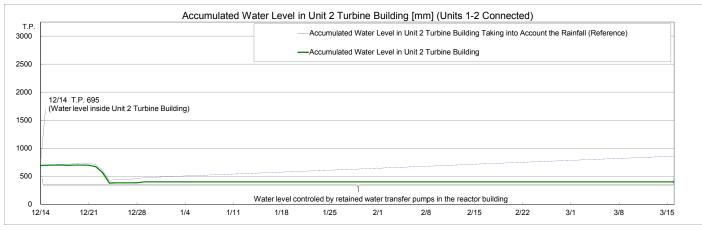
/		fication												
	High level radioactive water/ W											Storage volume ^{*1,2}	Change from last report	t Storage capacity ^{*3,4}
	Treated wate	er (saltwater)	1 [Strontium-ti	reated							Concentrated saltwater receiving tank*1 0m	-	-
/ • • •	Treated water (concentrate	ed saltwater), pipe remova		water <stor< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Freshwater receiving tank 11,763</td><td>4220m³ +220m³</td><td>12,600m³</td></stor<>								Freshwater receiving tank 11,763	4220m ³ +220m ³	12,600m ³
	Strontium-tr	reated water				1ulti-nuclide	Removal	Treated	d water		L L	Concentrated waste liquid storage tank 9,230	m ³ -11m ³	10,700m ³
/	Treated water (fresh	water), pipe removal		Treated wa	ter E	quipment	•	(Conce	ntrated saltw	vater)		Treated water storage tank 841,11	5m ³ +2,257m ³	864,300m ³
	Treated water from Multi-	-nuclide Removal Facilit		<storage></storage>		• •	;;	<pre>receiv</pre>	ving tank>	Image: Image		Strontium-treated water storage tank 184,65	1m ³ -379m ³	207,200m ³
-	Fresh	water					:							
L			1	Filtr	ata		:					Residual water ^{*5}	Change from last report	Storage capacity*3.4
Volume of w	vater to be injected	Change from last	ĩ		Concentrated		rative 📥 🖬	Revers	se osmosis tr	reated	Desalination plant (Reverse osmosis)	Concentrated		Approx.5,200m ³
_	tor (12/7-12/14)	report	ł	Tan	waste ilquiu		ntration		Freshwater)	↓ ↓	(Reverse osmosis)	saltwater tank Approx. 7		Appr0x.5,20011
 Filtrate water Treated water 	-	-	-		<storage></storage>	appara	alus	<receiv< td=""><td>/ing tank></td><td></td><td></td><td>·</td><td></td><td>1</td></receiv<>	/ing tank>			·		1
(freshwater)	1,454m ³	-3m ³	1	1							TTTI	Storage volume	Change from last report	Storage volume*3
Cumulative treated water	^d 833,174m ³		_		<u> </u>							Wastewater supply tank 774n	1 ³ +42m ³	1,200m ³
<u></u>				Water in	2			Revers	e osmosis		Wastewater	SPT(B) 1.747	m ³ +830m ³	3.100m ³
				tank (CS	ŠТ)			circulat	ion facility ins	ide	supply tank			-,
Reacto	or building		2m3/day,FDW · CS		ank)				4					
			7m ³ /day,FDW · CS								↑↑		Chloride o	concentration
			8m3/day,FDW • CS	°								Before/After Desalination		ampled on November 7)
												Before/After Reverse Osmosis Ci		ampled on August 17)
							Con	tralized radioactiv	io wasto		SPT(B)	Before/After Evaporative Concer		_
							treat	tment facility					addon	
				Turbir	ne building		(Hig	h temperatúre inc	cinerator building)			Diago of Complian	De die e stisite	*6
								1			TT	Place of Sampling	,	mpled on November 7)
		\nearrow						*				Process Main Buildi	5	
	/ Reactor Pres	sure Vessel									Treatment facility (Cesium adsorption apparatus)	Exit of cesium adsorption app		npled on September 4)
1	(Condenser						(2nd Cesium adsorption apparatus)) Exit of decontamination High Temperature Incinerator E	,	
	\bigvee	\sim			Condenser			entralized rad	liopotivo		(Decontamination facility)	Tight remperature incinerator E		. ,
	\mathbf{X}	\sim	\frown					aste treatmen			J	Exit of second cesium adsorption ap	paratus 4.4E+02 Bq/L (Sai	mpled on November 7)
								rocess main			1			
	Primary Contai	nment Vesse						1			· · · · · · · · · · · · · · · · · · ·	From		
	ý					()		+			10/anto	From		
			Ū						(0	Waste	(A)		
	Storage	Change from	Water level in	Г		Storage	Change from	Water level	Treated volume	Cumulative		Change from	Storage	1
Facility	volume	last report	T/B * ⁸		Storage facility	volume	last report	*8	(12/7-12/14)	treated volume	Waste produced	last report	capacity	
Unit 1	Approx. 5,770m ³	-40m ³	_	[Process Main Building	Approx. 9,980m ³	-1,710m3	T.P. 1,076	A =====	Annes/	Sludge 597m ³	No Change	700m ^{3 *3}	
Onit	Approx. 5,770m	-40111	*10		r locess wain building	Approx. 9,98011	-1,710113		Approx. 4,550m ³	Approx. 1,870,500m ³	Sludge 59711	No Change	70011	
Unit 2	Approx. 11,310m ³	+10m ³	T.P.695		High Temperature Incinerator Building	Approx. 4,230m ³	+30m3	T.P. 1,248	*7	*7	Used vessels 3,849 ^{*9}	+12	6,368	
L		-260m3	T.P. 564		Total	Approx. 14,210m ³								-
Unit 3	Approx, 11.000m ³									*2 1	The figures of the data are treated as a reference, because the figures of the storage volume do not include those of the figures of the bright of an acting "down pack(DS)" with	e following volumes that have accumulated fro	e. m the bottom	
Unit 3	Approx. 11,000m ³									c F	or the tanks to the height of so-called "down scale (DS)," will	here water gauges show 0%: vaste liquid storage tank (approx.100m ³),		
Unit 3 Unit 4	Approx. 11,000m ³ Approx. 12,000m ³	-220m3	T.P. 607	L							reshwater receiving tank (approx. 900m ³), Concentrated w			
Unit 4	Approx. 12,000m ³	-220m3	T.P. 607	l						*3 1	Freated water storage tank (approx 1 600m ³) Strontium-tre	pated water storage tank (approx 4 100m ³)		
		-220m3	T.P. 607							*3 1	Freated water storage tank (approx. 1,600m ³), Strontium-tro The figures of the data show the operational limits.	eated water storage tank (approx. 4,100m ³).	om of the tanks to acity that accomodates	
Unit 4 Total [Main operatio	Approx. 12,000m ³ Approx. 40,080m ³ ons that have been of	conducted during	g the period from De	cember 7, 2017	(the previous announcement of	ata) to Decembe	er 14, 2017]]	*31 *41 *51	Freated water storage tank (approx. 1,600m ³), Strontium-tra he figures of the data show the operational limits. The figures of "Storage capacity" do not include those of the he height of so-called "down scale (DS)," where water gau more than the storage volume that accumulates up to the h he figure of "Steciliai water" includes the one of the volume	eated water storage tank (approx. 4,100m ³). volumes that have accumulated from the bott ges show 0%. However, each tank has the cap leight of "DS."	acity that accomodates	
Unit 4 Total [Main operatio - Water transfe	Approx. 12,000m ³ Approx. 40,080m ³ ons that have been over from the Units 1-	conducted during 4 to the building	g the period from De s (Units 1-4, Centrali	zed radioactive	waste treatment facility) and to	the teatment fa	cility was conduc	ted whenever r	necessary.	*3 1 *4 1 *5 1	Treated water storage tank (approx. 1,600m ³), Strontium/t- he figures of the data show the operational imits. The figures of "Storage capacity" do not include those of the he height of so-called "down scale (DS)," where water gau- more than the storage volume that accumulates up to the ho figure of "Residual water" includes the one of the volum he height of so-called "down scale (DS)," where water gau- altwater is calculated based on that of the water treated th	eated water storage tank (approx. 4,100m ³). volumes that have accumulated from the bott ges show 0%. However, each tank has the cap leight of "DS."	acity that accomodates	
Unit 4 Total [Main operatio - Water transfe - Due to other - From Decem	Approx. 12,000m ³ Approx. 40,080m ³ ons that have been er from the Units 1– work, water transfer ber 11, operations	conducted during 4 to the building er to the building of the Cesium A	g the period from De s (Units 1-4, Centrali s (Units 1-4, Centrali dsorption Apparatus	zed radioactive zed radioactive have been con	waste treatment facility) and to waste treatment facility) was co ducted; the availability factor is	the teatment fa	cility was conductive ver necessary.		necessary.	*31 *41 *5 *5 *5 *5 *5 *5 *5 *5 *5 *5 *5 *1	Treated water storage tank (approx. 1,600m ³). Stornitum ³ , he figures of the data show the operational limits. he figures of "Storage capacity" do not include those of the he height of oscialed "down scale (DS), where water gau- more than the storage volume that accumulates up to the height he figure of "Residual water includes the one of the volum he height of so-called "down scale (DS), "where water gau- barder is calculated based on the of the volum he height of so-called "down scale (DS), "where water gau- barder is calculated based on the of the volum of the off the state of the other water treated the "call treated amount of Cesium adsorption apparatus and 2	ated water storage tank (approx. 4,100m ³). volumes that have accumulated from the bot ges show 0%. However, each tank has the car gight of TS. ³ es that have accumulated from the bottom of 1 ges show 0%. The amount of the residual wate rough the ALPS and other facilities and cleasum adsorption apparatus (Amount of La ratus (980m ³).	acity that accomodates he tanks to r of concentrated	
Unit 4 Total [Main operatio - Water transfe - Due to other - From Decem - From Decem	Approx. 12,000m ³ Approx. 40,080m ³ ons that have been er from the Units 1- work, water transfe	conducted during 4 to the building er to the building of the Cesium A of the Cesium A	g the period from De s (Units 1-4, Centrali s (Units 1-4, Centrali dsorption Apparatus dsorption Apparatus	zed radioactive zed radioactive have been con has been susp	waste treatment facility) and to waste treatment facility) was co ducted; the availability factor is ended.	the teatment fa	cility was conductive ver necessary.		necessary.	*31 *41 *51 *51 *61 *71	Freated water storage tank (approx. 1.600m ³). Stornitum ⁴ , the figures of the data show the operational limits. The figures of the data show the operational limits. The height of so-called "down scale (DS), where water gau note than the theorem water that accume and the DS that the theorem of the data show the data of the DS that the height of so-called "down scale (DS), where water gau allwater is calculated based on that of the water treated th the data show there are those of CS-137. Cell treated amount of Celsum adsorption apparatus and 2 stankdown of the theated amount cellsum adsorption apparatus	alated water storage tank (approx. 4,100m ³). s volumes that have accumulated from the bott set show 0%. However, each tank has the car gight of TOS. Be show 0%. The amount of the residual water rough the ALPS and other facilities. Ind Cesium adsorption apparatus (Amount of L tatus (GBOm ³) m ³).	acity that accomodates he tanks to r of concentrated nder trial operation included.)	
Unit 4 Total [Main operatio - Water transfr - Due to other - From Decem - From Decem - From Decem	Approx. 12,000m ³ Approx. 40,080m ³ ons that have been nier from the Units 1- work, water transfe hober 11, operations hober 13, operations	conducted during 4 to the building er to the building of the Cesium A of the Cesium A of the 2nd Cesiu	g the period from De s (Units 1-4, Centrali s (Units 1-4, Centrali dsorption Apparatus dsorption Apparatus m Adsorption Appar	zed radioactive zed radioactive have been con has been susp atus has been s	waste treatment facility) and to waste treatment facility) was co ducted; the availability factor is ended.	the teatment fa nducted whenev 11% (previously	cility was conduct /er necessary. simulated: 10%)).	necessary.	*31 *41 *51 *51 *61 *71	Freated water storage tank (approx. 1.600m ³). Stornitum ⁴ , the figures of the data show the operational limits. The figures of the data show the operational limits. The height of so-called "down scale (DS), where water gau note than the theorem water that accume and the DS that the theorem of the data show the data of the DS that the height of so-called "down scale (DS), where water gau allwater is calculated based on that of the water treated th the data show there are those of CS-137. Cell treated amount of Celsum adsorption apparatus and 2 stankdown of the theated amount cellsum adsorption apparatus	alated water storage tank (approx. 4,100m ³). s volumes that have accumulated from the bott set show 0%. However, each tank has the car gight of TOS. Be show 0%. The amount of the residual water rough the ALPS and other facilities. Ind Cesium adsorption apparatus (Amount of L tatus (GBOm ³) m ³).	acity that accomodates he tanks to r of concentrated nder trial operation included.)	
Unit 4 Total [Main operatio - Water transfr - Due to other - From Decem - From Decem - From Decem	Approx. 12,000m ³ Approx. 40,080m ³ ons that have been nier from the Units 1- work, water transfe hober 11, operations hober 13, operations	conducted during 4 to the building er to the building of the Cesium A of the Cesium A of the 2nd Cesiu	g the period from De s (Units 1-4, Centrali s (Units 1-4, Centrali dsorption Apparatus dsorption Apparatus m Adsorption Appar	zed radioactive zed radioactive have been con has been susp atus has been s	waste treatment facility) and to waste treatment facility) was or ducted; the availability factor is ended. suspended.	the teatment fa nducted whenev 11% (previously	cility was conduct /er necessary. simulated: 10%)).	necessary.	-33 -4 -5 -5 -6 -7 7 7 -7 7 -7 7 -7 7 -7 -7 -7 -7 -7 -7	reated water storage tank (approx. 1,600m ³). Stornitum ⁴ he figures of the data show the operational limits. The figures of the data show the operational limits. The figures of "Storage capacity" do not include those of the more than the storage volume that do comunidate up to the h he figure of "Residual water" includes the one of the volum herbight of so-called "down scale (DS), where water gau- alitwater is calculated based on third of the water rested the data show there are those of C-137. Data show the rest the data control and the storage of 28 makdown of the treated amount. Cessium adsorption 28 makdown of the cumulative treated amount. Cessium 38 makdown of the cumulative treated amount. Cessium 38 makdown of the used vessels: Cesium adsorption treakdown of the used vessels: Cesium adsorption 20 misers. Storage container in the storage of the storage 20 misers. Storage container in the storage of the storage 20 misers. Storage container in the storage of the storage of the storage 20 misers. Storage container in the storage of the storage of the storage of the storage of the storage 20 misers. Storage container in the storage of th	ateld water storage tark (approx. 4,100m ³). a volumes that have accumulated from the bott solution of the storage of the storage of the storage set that have accumulated from the bottom of (appl of DS ² , " the amount of the residual water rough the ALPS and other facilities. Ind Cesium adsorption apparatus (Anount of L ratus (96m ³) appratus (377,240m ³) adsorption apparatus ((372,320m ³)) us (763), 2nd Cesium adsorption apparatus (2,515), Treated column (10.1) Use appratus (2,515), Treated column (10.1) Use appratus (3,515), Treated column (10.1) Use appratus (3,516), Treated c	acity that accomodates he tanks to r of concentrated inder trial operation included.)	
Unit 4 Total [Main operatio - Water transfr - Due to other - From Decem - From Decem - From Decem	Approx. 12,000m ³ Approx. 40,080m ³ ons that have been nier from the Units 1- work, water transfe hober 11, operations hober 13, operations	conducted during 4 to the building er to the building of the Cesium A of the Cesium A of the 2nd Cesiu	g the period from De s (Units 1-4, Centrali s (Units 1-4, Centrali dsorption Apparatus dsorption Apparatus m Adsorption Appar	zed radioactive zed radioactive have been con has been susp atus has been s	waste treatment facility) and to waste treatment facility) was or ducted; the availability factor is ended. suspended.	the teatment fa nducted whenev 11% (previously	cility was conduct /er necessary. simulated: 10%)).	necessary.	-33 -4 -5 -5 -6 -7 7 7 -7 7 -7 7 -7 7 -7 -7 -7 -7 -7 -7	reated water storage tank (approx. 1,600m ³). Stornitum ⁴ he figures of the data show the operational limits. The figures of the data show the operational limits. The figures of the data show the operational limits. The height of so-called "down scale (DS), where water gau more than the storage volume that accumulates up to the height of so-called "down scale (DS), where water gau stativater is calculated based on that of the water treated the data show the rear ethose of Cs-137. Crial treated amount of Cesium adsorption apparatus and 2 reakdown of the cumulative treated amount. Cesium adsorption be data of the water levels in the Reactor Buildings are the reakdown of the cumulative treated amount. Cesium adsorption be data of the water levels in the Reactor Buildings are the data of the water levels in the Reactor Buildings are the data of the water levels in the Reactor Buildings are the data water levels in the Reactor Buildings are the	ateld water storage tark (approx. 4,100m ³). a volumes that have accumulated from the bott solution of the storage of the storage of the storage set that have accumulated from the bottom of (appl of DS ² , " the amount of the residual water rough the ALPS and other facilities. Ind Cesium adsorption apparatus (Anount of L ratus (96m ³) appratus (377,240m ³) adsorption apparatus ((372,320m ³)) us (763), 2nd Cesium adsorption apparatus (2,515), Treated column (10.1) Use appratus (2,515), Treated column (10.1) Use appratus (3,515), Treated column (10.1) Use appratus (3,516), Treated c	acity that accomodates he tanks to r of concentrated inder trial operation included.)	
Unit 4 Total [Main operatio - Water transfr - Due to other - From Decem - From Decem - From Decem	Approx. 12,000m ³ Approx. 40,080m ³ ons that have been nier from the Units 1- work, water transfe hober 11, operations hober 13, operations	conducted during 4 to the building er to the building of the Cesium A of the Cesium A of the 2nd Cesiu	g the period from De s (Units 1-4, Centrali s (Units 1-4, Centrali dsorption Apparatus dsorption Apparatus m Adsorption Appar	zed radioactive zed radioactive have been con has been susp atus has been s	waste treatment facility) and to waste treatment facility) was or ducted; the availability factor is ended. suspended.	the teatment fa nducted whenev 11% (previously	cility was conduct /er necessary. simulated: 10%)).	necessary.	-33 -4 -5 -5 -6 -7 7 7 -7 7 -7 7 -7 7 -7 -7 -7 -7 -7 -7	reated water storage tank (approx. 1,600m ³). Stornitum ⁴ he figures of the data show the operational limits. The figures of the data show the operational limits. The figures of "Storage capacity" do not include those of the more than the storage volume that do comunidate up to the h he figure of "Residual water" includes the one of the volum herbight of so-called "down scale (DS), where water gau- alitwater is calculated based on third of the water rested the data show there are those of C-137. Data show the rest the data control and the storage of 28 makdown of the treated amount. Cessium adsorption 28 makdown of the cumulative treated amount. Cessium 38 makdown of the cumulative treated amount. Cessium 38 makdown of the used vessels: Cesium adsorption treakdown of the used vessels: Cesium adsorption 20 misers. Storage container in the storage of the storage 20 misers. Storage container in the storage of the storage 20 misers. Storage container in the storage of the storage of the storage 20 misers. Storage container in the storage of the storage of the storage of the storage of the storage 20 misers. Storage container in the storage of th	ateld water storage tark (approx. 4,100m ³). a volumes that have accumulated from the bott solution of the storage of the storage of the storage set that have accumulated from the bottom of (appl of DS ² , " the amount of the residual water rough the ALPS and other facilities. Ind Cesium adsorption apparatus (Anount of L ratus (96m ³) appratus (377,240m ³) adsorption apparatus ((372,320m ³)) us (763), 2nd Cesium adsorption apparatus (2,515), Treated column (10.1) Use appratus (2,515), Treated column (10.1) Use appratus (3,515), Treated column (10.1) Use appratus (3,516), Treated c	acity that accomodates he tanks to r of concentrated inder trial operation included.)	
Unit 4 Total [Main operatio - Water transfr - Due to other - From Decem - From Decem - From Decem	Approx. 12,000m ³ Approx. 40,080m ³ ons that have been nier from the Units 1- work, water transfe hober 11, operations hober 13, operations	conducted during 4 to the building er to the building of the Cesium A of the Cesium A of the 2nd Cesiu	g the period from De s (Units 1-4, Centrali s (Units 1-4, Centrali dsorption Apparatus dsorption Apparatus m Adsorption Appar	zed radioactive zed radioactive have been con has been susp atus has been s	waste treatment facility) and to waste treatment facility) was or ducted; the availability factor is ended. suspended.	the teatment fa nducted whenev 11% (previously	cility was conduct /er necessary. simulated: 10%)).	necessary.	-33 -4 -5 -5 -6 -7 7 7 -7 7 -7 7 -7 7 -7 -7 -7 -7 -7 -7	reated water storage tank (approx. 1,600m ³). Stornitum ⁴ he figures of the data show the operational limits. The figures of the data show the operational limits. The figures of "Storage capacity" do not include those of the more than the storage volume that do comunidate up to the h he figure of "Residual water" includes the one of the volum herbight of so-called "down scale (DS), where water gau- alitwater is calculated based on third of the water rested the data show there are those of C-137. Data show the rest the data control and the storage of 28 makdown of the treated amount. Cessium adsorption 28 makdown of the cumulative treated amount. Cessium 38 makdown of the cumulative treated amount. Cessium 38 makdown of the used vessels: Cesium adsorption treakdown of the used vessels: Cesium adsorption 20 misers. Storage container in the storage of the storage 20 misers. Storage container in the storage of the storage 20 misers. Storage container in the storage of the storage of the storage 20 misers. Storage container in the storage of the storage of the storage of the storage of the storage 20 misers. Storage container in the storage of th	ateld water storage tark (approx. 4,100m ³). a volumes that have accumulated from the bott solution of the storage of the storage of the storage set that have accumulated from the bottom of (appl of DS ² , " the amount of the residual water rough the ALPS and other facilities. Ind Cesium adsorption apparatus (Anount of L ratus (96m ³) appratus (377,240m ³) adsorption apparatus ((372,320m ³)) us (763), 2nd Cesium adsorption apparatus (2,515), Treated column (10.1) Use appratus (2,515), Treated column (10.1) Use appratus (3,515), Treated column (10.1) Use appratus (3,516), Treated c	acity that accomodates he tanks to r of concentrated inder trial operation included.)	

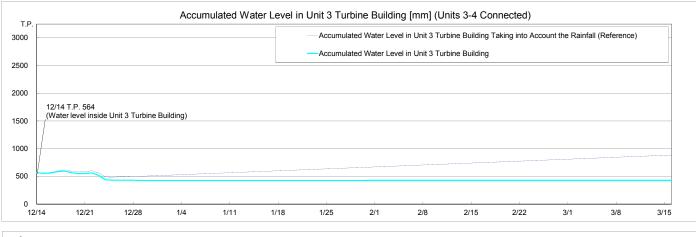
Attachment-1

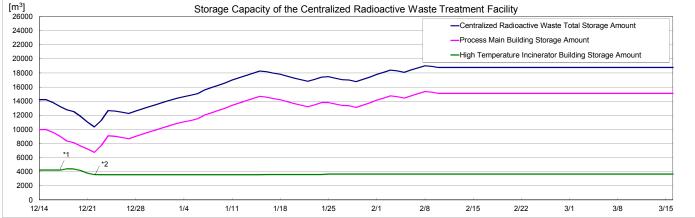
Storage and treatment of high level radioactive accumulated water (as of December 21, 2017)



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







m ³] 30000	Storage Capacity and Volume of the Concentrated Saltwater Tank												
20000				-Tank Capacity									
		Concentrated Waste Fluid Storage Amount											
				Treated Water (Conce	ntrated Saltwater)	Receiving Tan	k Storage Ame	ount					
	The residual water of conc				- 4								
		entrated saltwater which	is left at the bol	ottoms of the storag	e tanks has be	een being tre	ated.						
0000	12/14 The operations of the Evap				e tanks nas de	een being tre							
0000		poration Concentration A	pparatus have b	been suspended.	e tanks nas be	een being tre							
0000	12/14 The operations of the Evap	poration Concentration A	pparatus have b ation (under hot	been suspended.		een being tre							
0000	12/14 The operations of the Evap	poration Concentration A promet has been in oper moval Equipment has be	pparatus have b ation (under hot een in operation	been suspended. It test). n.		een being tre							

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 and 3 T/Bs" are simulated water levels consideration of the change of the water levels caused by recent rainfall, inflow of groundwater, etc.
in the surrounding areas of the Fukushima Dalichi Nuclear Power Station.
"Accumulated Water Levels in Unit 2 and 3 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

"Accumulated Water Levels in Unit 2 and 3 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 a 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. *1 Water transfer from the Unit1-4 to the Centralized radioactive waste treatment facility will be changeover from the Process main building to the High temperature incinerator building. *2 Water transfer from the Unit1-4 to the Centralized radioactive waste treatment facility will be changeover from the High temperature incinerator building.