# Situation of Storage and Treatment of Accumulated Water including Highly Concentrated Radioactive Materials at Fukushima Daiichi Nuclear Power Station (373rd Release)

October 9, 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 October 4, 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 October 11, 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.

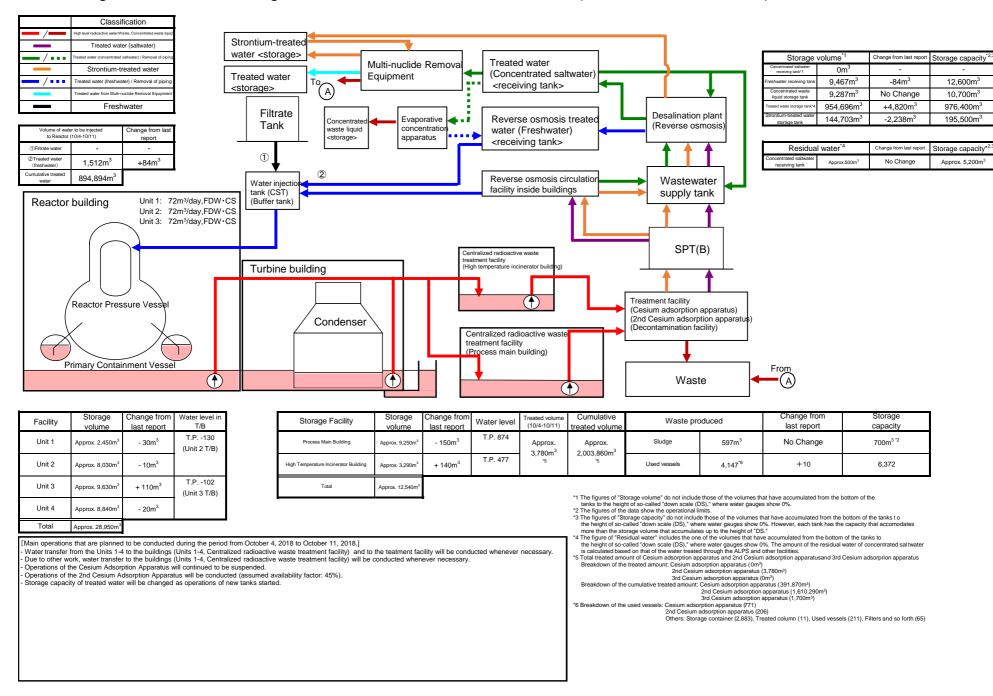
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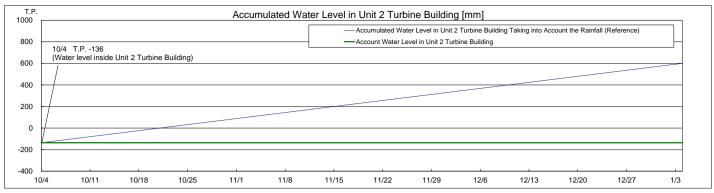
# Storage and treatment of high level radioactive accumulated water (as of October 4, 2018)

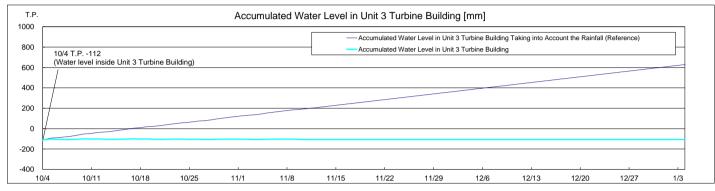
Classification											
									Storage volume <sup>*1,</sup>	2 Change from last report	t Storage capacity <sup>*3,4</sup>
Treated water (saltwater)	ntium-treated								Concentrated saltwater receiving tank*1 Om		-
/	er <storage></storage>								Freshwater receiving tank 9,551	1m <sup>3</sup> +322m <sup>3</sup>	12,600m <sup>3</sup>
Strontium-treated water		Multi-nuclide	Removal	Treated					Concentrated waste liquid storage tank 9,287	Ű	10,700m <sup>3</sup>
		Equipment			ntrated saltv ring tank>	vater)			Treated water storage tank 949,87 Strontium-treated water		970,200m <sup>3</sup>
					ing tank>			,	storage tank 146,94	41m <sup>3</sup> -1,888m <sup>3</sup>	195,500m <sup>3</sup>
Freshwater			:						5	Change from last report	
Volume of water to be injected Change from last	Filtrate Concentrated	Evapor	ative	Revers	e osmosis ti	reated	Desalination pla		Residual water <sup>5</sup>		Storage capacity*3,4
to Reactor (9/27-10/4) report	Valiation waste liquid	concen			Freshwater)	<b>▲</b>	(Reverse osmo	SIS)	saltwater tank Approx.	500m <sup>3</sup> No Change	Approx. 5,200m <sup>3</sup>
①Filtrate water         -         -           ②Treated water         -         3         0	<storage></storage>	appara		<receiv< td=""><td>ing tank&gt;</td><td></td><td></td><td></td><td>01</td><td></td><td>0</td></receiv<>	ing tank>				01		0
(2) I realed water (freshwater) 1,428m <sup>3</sup> 3 Cumulative treated	1								Storage volume	Change from last report	Storage volume*3
893,382m <sup>3</sup>	2			Devere	e osmosis				supply tank 764		1,200m <sup>3</sup>
	Water injection tank (CST)				on facility ins	ide	Wastewate		SPT(B) 984	m <sup>3</sup> +23m <sup>3</sup>	3,100m <sup>3</sup>
	(Buffer tank)						supply tanl	<u> </u>			
Unit 2: 67m³/day,FDW CS							<b>↑1</b>	k		Chloride	concentration
Unit 3: 67m³/day,FDW • CS								_	Before/After Desalination		mpled on September 18)
									Before/After Reverse Osmosis C		mpled on September 20)
				tralized radioactiv	e waste		SPT(B)		Before/After Evaporative Conce	entration	-
	Turbine building			tment facility h temperature inc	nerator building)						
				-		_	<b>↑1</b>	•	Place of Sampling		y concentration <sup>*6</sup>
				↓		, r			Process Main Build	3	mpled on September 12)
Reactor Pressure Vessel							Treatment facility (Cesium adsorption app	aratue)	Exit of cesium adsorption app		ampled on February 20)
	Condenser						(2nd Cesium adsorption	apparatus)	Exit of decontamination High Temperature Incinerator		
		$ \rightarrow $	L C	entralized rad	oactive		(Decontamination facilit	y)	Exit of second cesium adsorption a		mpled on September 12)
			wa	aste treatmen	t facility						
			(P	rocess main	building)		•				
Primary Containment Vessel			_	L					From		
							Waste	•	<b>—</b> (A)		
					U						
						0					
Facility Storage Change from Water level in	Storage facility	Storage	Change from	Water level	Treated volume	Cumulative	Waste produ	ced	Change from	Storage	٦
Facility volume last report T/B *8	Storage facility	Storage volume	Change from last report	*8	Treated volume (9/27-10/4)	treated volume	Waste produ		last report	capacity	]
Facility         volume         last report         T/B *8           Unit 1         Approx. 2,480m <sup>3</sup> No change         —	Storage facility Process Main Building		0	* <sup>8</sup> T.P. 916			Waste produ Sludge	597m <sup>3</sup>			
Facility volume last report T/B *8		volume	last report	*8	(9/27-10/4) Approx.	Approx.			last report	capacity	
Facility         volume         last report         T/B *8           Unit 1         Approx 2,480m <sup>3</sup> No change         —	Process Main Building	Volume Approx. 9,400m <sup>3</sup>	- 860m <sup>3</sup>	* <sup>8</sup> T.P. 916	(9/27-10/4) Approx.	Approx. 2,000,080m <sup>3</sup> -7	Sludge Used vessels figures of the data are treated as a re	597m <sup>3</sup> 4,137 <sup>*9</sup>	last report No Change +8	capacity 700m <sup>3 *3</sup> 6,372	
Facility         volume         last report         T/B *8           Unit 1         Approx. 2,480m <sup>3</sup> No change         —           Unit 2         Approx. 8,040m <sup>3</sup> - 110m <sup>3</sup> T.P 136           Unit 3         Approx. 9,520m <sup>3</sup> + 50m <sup>3</sup> T.P 112	Process Main Building High Temperature Incinerator Building	volume Approx. 9,400m <sup>3</sup> Approx. 3,150m <sup>3</sup>	- 860m <sup>3</sup>	* <sup>8</sup> T.P. 916	(9/27-10/4) Approx.	treated volume Approx. 2,000,080m <sup>3</sup> -7	Sludge Used vessels e figures of the data are treated as a re e figures of the torcage volume do not e figures.	597m <sup>3</sup> 4,137 <sup>*9</sup>	Iast report No Change +8 or lovels during water transfer are not stable forwary outmet that have accumulated fr water prames that have 0%:	capacity 700m <sup>3 *3</sup> 6,372	
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Facility         volume         last report         T/B *8           Unit 1         Approx. 2,480m <sup>3</sup> No change         —           Unit 2         Approx. 8,040m <sup>3</sup> - 110m <sup>3</sup> T.P 136           Unit 3         Approx. 9,520m <sup>3</sup> + 50m <sup>3</sup> T.P 112           Unit 4         Approx. 8,860m <sup>3</sup> + 30m <sup>3</sup> T.P 138           Total         Approx. 28,900m <sup>3</sup> Image: Constructed during the period from September 1000000000000000000000000000000000000	Process Main Building High Temperature Incinerator Building Total Fer 27, 2018 (the previous announcemen	Volume Approx. 9,400m <sup>3</sup> Approx. 3,150m <sup>3</sup> Approx. 12,550m <sup>3</sup>	last report - 860m <sup>3</sup> + 250m <sup>3</sup> 4, 2018.]	*8 T.P. 916 T.P. 361	(9/27-10/4) Approx. 4,030m <sup>3</sup> 7	treated volume Approx. 2,000,080m <sup>3</sup> -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	Sludge Used vessels efigures of the data are treated as a re efigures of the storage volume do not the tarks to the height of as-called 'do setwater receiving tark (approx. 300 efigures of the data show the operation for the storage science of the storage of "Storage capacity" the role.	597m <sup>3</sup> 4,137 <sup>*9</sup> erence, because wat nclude those of the 1 m scale (DS), "wher ), Concentrated was more start of the start all limits. clude those of the v where water gauge	Iast report No Change +8 er levels during water transfer are not stabl ollowing volumes that have accumulated fr e water gauges show 0%: le liquid storage tank (approx. 100m <sup>3</sup> ). de water storage tank (approx. 200m <sup>3</sup> ). de water storage tank (approx. 200m <sup>3</sup> ).	capacity 700m <sup>3 *3</sup> 6,372 le. form the bottom	
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Facility         volume         last report         T/B *8           Unit 1         Approx. 2,480m <sup>3</sup> No change         —           Unit 2         Approx. 8,040m <sup>3</sup> - 110m <sup>3</sup> T.P 136           Unit 3         Approx. 9,520m <sup>3</sup> + 50m <sup>3</sup> T.P 112           Unit 4         Approx. 9,520m <sup>3</sup> + 50m <sup>3</sup> T.P 138           Total         Approx. 28,900m <sup>3</sup> -         -           Main operations that have been conducted during the period from Septemb         -         -           Uo other work, water transfer to the buildings (Units 1-4, Centralized ra         -         -           - The operations of the Cesium Adsorption Apparatus have been conducted to reparatus have been conducted to reparatus have been conducted to the puildings (Units 1-4, Centralized ra         -           - The operations of the Casium Adsorption Apparatus have been conducted to reparatus have been conducted to reparatus have been conducted to the cosium Adsorption Apparatus have been conducted to reparatus have been conducted cosium Adsorption Apparatus have been conducted to reparatus have been conduct	Process Main Building High Temperature Incinerator Building Total Total	Volume Approx. 9,400m <sup>3</sup> Approx. 3,150m <sup>3</sup> Approx. 12,550m <sup>3</sup> Approx. 12,550m <sup>3</sup> Approx. 12,550m <sup>3</sup>	last report - 860m <sup>3</sup> + 250m <sup>3</sup> 4, 2018.] lity was conduct r necessary.	*8 T.P. 916 T.P. 361	(9/27-10/4) Approx. 4,030m <sup>3</sup> 7	treated volume Approx. 2,000,080m <sup>3</sup> 7 1 Tr 2 Tr 6 7 Tr 5 Tr 5 Tr 5 Tr 5 Tr 7 Tr 5 Tr 5 Tr 5 Tr 5 Tr 5 Tr 5 Tr 5 Tr 5	Sludge Used vessels  figures of the data are treated as a re figures of the storage volume do not the tanks to the haipford so-called of aelwater receiving tark (apport, 900 aelwater receiving tark (apport, 900 aelwater socialized avael (DS), figures of the data show the operation in height of so-called 'down scale (DS), in the storage volume tark (apport, 170 figures of the data show the operation in height of as-called 'down scale (DS), in the storage volume tark (apport, 170 and 1800 and 18	597m <sup>3</sup> 4,137 <sup>*9</sup> erence, because wat nclude those of the f m scale (DS), "wher y, Concontrated was unable to the scale characterized and the scale of the volumes a cone of the	last report     No Change     +8     elsevels during vester transfer are not stable     totown of the second stable     second stable     totown of the second stable     second     second stable     second     second stable     second     secon	capacity 700m <sup>3 *3</sup> 6,372 le. from the bottom tom of the tanks to specify that accomodates the tanks to the tanks to ler of concentrated sium adsorption apparatus.	
Facility     volume     last report     T/B *8       Unit 1     Approx. 2,480m <sup>3</sup> No change     —       Unit 2     Approx. 8,040m <sup>3</sup> - 110m <sup>3</sup> T.P 136       Unit 3     Approx. 9,520m <sup>3</sup> + 50m <sup>3</sup> T.P 112       Unit 4     Approx. 8,860m <sup>3</sup> + 30m <sup>3</sup> T.P 138       Total     Approx. 28,900m <sup>3</sup> - 10 the buildings (Units 1-4, Centralized ra       - Water transfer from the Units 1-4 to the buildings (Units 1-4, Centralized ra     - The operations of the Cesium Adsorption Apparatus have been conducted neen conduct a comparatus have been conducted rates and the operations of the Cesium Adsorption Apparatus have been endored	Process Main Building High Temperature Incinerator Building Total Total	Volume Approx. 9,400m <sup>3</sup> Approx. 3,150m <sup>3</sup> Approx. 12,550m <sup>3</sup> Approx. 12,550m <sup>3</sup> Approx. 12,550m <sup>3</sup>	last report - 860m <sup>3</sup> + 250m <sup>3</sup> 4, 2018.] lity was conduct r necessary.	*8 T.P. 916 T.P. 361	(9/27-10/4) Approx. 4,030m <sup>3</sup> 7	treated volume Approx. 2,000,080m <sup>3</sup> 7 7 1 Tr 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Sludge Used vessels  efigures of the data are treated as a re figures of the storage volume do not the tanks to the high of a so-alled of aed water storage tank (apport. 37)  efigures of the ista abov the operation and water is angle and water includes the indig of a so-alled of vom scale (DS), ore than the storage volume that accure figure of Residurater includes the high of a so-alled 'down scale (DS). Inter is calculated amount of cesium adsorptic aekdown of the unultative treated amount	597m <sup>3</sup> 4,137 <sup>*9</sup> 4,137 <sup>*9</sup> erence, because wat nclude those of the f whose water by concentrated was more search of the most of the search of the whose water gauge ulates up to the heig where water gauge ulates up to the heig where water gauge sone of the volumes where water gauge sone of the volumes where water gauge unates of the search of the sea	Iast report No Change +8 Intervent of the second se	capacity 700m <sup>3 *3</sup> 6,372 le. from the bottom tom of the tanks to pareity that accomodates the rank to concentrated sium adsorption apparetus.	
Facility         volume         last report         T/B *8           Unit 1         Approx. 2,480m <sup>3</sup> No change         —           Unit 2         Approx. 8,040m <sup>3</sup> - 110m <sup>3</sup> T.P 136           Unit 3         Approx. 9,520m <sup>3</sup> + 50m <sup>3</sup> T.P 112           Unit 4         Approx. 9,520m <sup>3</sup> + 50m <sup>3</sup> T.P 138           Total         Approx. 28,900m <sup>3</sup> -         -           Main operations that have been conducted during the period from Septemb         -         -           Uo other work, water transfer to the buildings (Units 1-4, Centralized ra         -         -           - The operations of the Cesium Adsorption Apparatus have been conducted to reparatus have been conducted to reparatus have been conducted to the puildings (Units 1-4, Centralized ra         -           - The operations of the Casium Adsorption Apparatus have been conducted to reparatus have been conducted to reparatus have been conducted to the cosium Adsorption Apparatus have been conducted to reparatus have been conducted cosium Adsorption Apparatus have been conducted to reparatus have been conduct	Process Main Building High Temperature Incinerator Building Total Total	Volume Approx. 9,400m <sup>3</sup> Approx. 3,150m <sup>3</sup> Approx. 12,550m <sup>3</sup> Approx. 12,550m <sup>3</sup> Approx. 12,550m <sup>3</sup>	last report - 860m <sup>3</sup> + 250m <sup>3</sup> 4, 2018.] lity was conduct r necessary.	*8 T.P. 916 T.P. 361	(9/27-10/4) Approx. 4,030m <sup>3</sup> 7	treated volume Approx. 2,000,080m <sup>3</sup> 7 7 1 Tr 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Sludge Used vessels  efigures of the data are treated as a re figures of the storage volume do not the tanks to the high of as-called of abevater reaeving tank (apport. 900 abevater receiving tank (apport. 900 abevater receiving tank (apport. 900 abevater receiving tank (apport. 900 abevater the storage volume that accure figure of Residuater includes the height of as-called 'down stale (DS), ore than the storage volume that accure figure of Residuater includes the height of as-called 'down stale (DS) abevater is accurated volume the height of as-called 'down stale (DS) abevater is accurated and the reset and amount cessite. Cessite abevater is accurated amount cessite. Cessite abevater is accurated vessels (Cessite) abevater is accurated vessels: Cessite) abevater is accurated vessels: Cessite abevater is accurated at the reset of the vessels: Cessite	597m <sup>3</sup> 4,137 <sup>*9</sup> 4,137 <sup>*9</sup> erence, because wat nclude those of the f whose of the f by the second the second whose water trade where water gauge ulates up to the heig where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the height adorption apparatus of double of the source the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source o	I ast report No Change +8 ar levels during water transfer are not stable lowering volumes that here accumulated for water gauges abov 0%: to liquid storage tank (approx.100m <sup>3</sup> ). volumes that have accumulated from the bot show 0%; however, each tank has the car of water storage tank (approx.4.00m <sup>3</sup> ). volumes that have accumulated from the bot show 0%; however, each tank has the car of show 0%; The amount of the residual wat gift ha LPS and toother facilities. Casium adsorption apparatus and 3rd Cet us (0m <sup>3</sup> ) caratus (3650m <sup>3</sup> ) caratus (3650m <sup>3</sup> ) caratus (3650m <sup>3</sup> ) tans of 7 a.m., October 4. (771). 2nd Cestum adsorption apparatus tan so for 7 a.m., October 4.	capacity 700m <sup>3 *3</sup> 6,372 la con the bottom tom of the tanks to pacify that accomodates the ranks to the ranks to the ranks to see that accomodates the ranks to concentrated sium adsorption apparatus.	
Facility         volume         last report         T/B *8           Unit 1         Approx. 2,480m <sup>3</sup> No change         —           Unit 2         Approx. 8,040m <sup>3</sup> - 110m <sup>3</sup> T.P 136           Unit 3         Approx. 9,520m <sup>3</sup> + 50m <sup>3</sup> T.P 112           Unit 4         Approx. 9,520m <sup>3</sup> + 50m <sup>3</sup> T.P 138           Total         Approx. 28,900m <sup>3</sup> -         -           Main operations that have been conducted during the period from Septemb         -         -           Uo other work, water transfer to the buildings (Units 1-4, Centralized ra         -         -           - The operations of the Cesium Adsorption Apparatus have been conducted to reparatus have been conducted to reparatus have been conducted to the puildings (Units 1-4, Centralized ra         -           - The operations of the Casium Adsorption Apparatus have been conducted to reparatus have been conducted to reparatus have been conducted to the cosium Adsorption Apparatus have been conducted to reparatus have been conducted cosium Adsorption Apparatus have been conducted to reparatus have been conduct	Process Main Building High Temperature Incinerator Building Total Total	Volume Approx. 9,400m <sup>3</sup> Approx. 3,150m <sup>3</sup> Approx. 12,550m <sup>3</sup> Approx. 12,550m <sup>3</sup> Approx. 12,550m <sup>3</sup>	last report - 860m <sup>3</sup> + 250m <sup>3</sup> 4, 2018.] lity was conduct r necessary.	*8 T.P. 916 T.P. 361	(9/27-10/4) Approx. 4,030m <sup>3</sup> 7	treated volume Approx. 2,000,080m <sup>3</sup> 7 7 1 Tr 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Sludge Used vessels  efigures of the data are treated as a re figures of the storage volume do not the tanks to the high of as-called of abevater reaeving tank (apport. 900 abevater receiving tank (apport. 900 abevater receiving tank (apport. 900 abevater receiving tank (apport. 900 abevater the storage volume that accure figure of Residuater includes the height of as-called 'down stale (DS), ore than the storage volume that accure figure of Residuater includes the height of as-called 'down stale (DS) abevater is accurated volume the height of as-called 'down stale (DS) abevater is accurated and the reset and amount cessite. Cessite abevater is accurated amount cessite. Cessite abevater is accurated vessels (Cessite) abevater is accurated vessels: Cessite) abevater is accurated vessels: Cessite abevater is accurated at the reset of the vessels: Cessite	597m <sup>3</sup> 4,137 <sup>*9</sup> 4,137 <sup>*9</sup> erence, because wat nclude those of the f whose of the f by the second the second whose water trade where water gauge ulates up to the heig where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the height adorption apparatus of double of the source the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source o	Iast report No Change +8 Intervent of the second se	capacity 700m <sup>3 *3</sup> 6,372 la con the bottom tom of the tanks to pacify that accomodates the ranks to the ranks to the ranks to see that accomodates the ranks to concentrated sium adsorption apparatus.	
Facility         volume         last report         T/B *8           Unit 1         Approx. 2,480m <sup>3</sup> No change         —           Unit 2         Approx. 8,040m <sup>3</sup> - 110m <sup>3</sup> T.P 136           Unit 3         Approx. 9,520m <sup>3</sup> + 50m <sup>3</sup> T.P 112           Unit 4         Approx. 9,520m <sup>3</sup> + 50m <sup>3</sup> T.P 138           Total         Approx. 28,900m <sup>3</sup> -         -           Main operations that have been conducted during the period from Septemb         -         -           Uo other work, water transfer to the buildings (Units 1-4, Centralized ra         -         -           - The operations of the Cesium Adsorption Apparatus have been conducted to reparatus have been conducted to reparatus have been conducted to the puildings (Units 1-4, Centralized ra         -           - The operations of the Casium Adsorption Apparatus have been conducted to reparatus have been conducted to reparatus have been conducted to the cosium Adsorption Apparatus have been conducted to reparatus have been conducted cosium Adsorption Apparatus have been conducted to reparatus have been conduct	Process Main Building High Temperature Incinerator Building Total Total	Volume Approx. 9,400m <sup>3</sup> Approx. 3,150m <sup>3</sup> Approx. 12,550m <sup>3</sup> Approx. 12,550m <sup>3</sup> Approx. 12,550m <sup>3</sup>	last report - 860m <sup>3</sup> + 250m <sup>3</sup> 4, 2018.] lity was conduct r necessary.	*8 T.P. 916 T.P. 361	(9/27-10/4) Approx. 4,030m <sup>3</sup> 7	treated volume Approx. 2,000,080m <sup>3</sup> 7 7 1 Tr 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Sludge Used vessels  efigures of the data are treated as a re figures of the storage volume do not the tanks to the high of as-called of abevater reaeving tank (apport. 900 abevater receiving tank (apport. 900 abevater receiving tank (apport. 900 abevater receiving tank (apport. 900 abevater the storage volume that accure figure of Residuater includes the height of as-called 'down stale (DS), ore than the storage volume that accure figure of Residuater includes the height of as-called 'down stale (DS) abevater is accurated volume the height of as-called 'down stale (DS) abevater is accurated and the reset and amount cessite. Cessite abevater is accurated amount cessite. Cessite abevater is accurated vessels (Cessite) abevater is accurated vessels: Cessite) abevater is accurated vessels: Cessite abevater is accurated at the reset of the vessels: Cessite	597m <sup>3</sup> 4,137 <sup>*9</sup> 4,137 <sup>*9</sup> erence, because wat nclude those of the f whose of the f by the second the second whose water trade where water gauge ulates up to the heig where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the height adorption apparatus of double of the source the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source o	I ast report No Change +8 ar levels during water transfer are not stable lowering volumes that here accumulated for water gauges abov 0%: to liquid storage tank (approx.100m <sup>3</sup> ). volumes that have accumulated from the bot show 0%; however, each tank has the car of water storage tank (approx.4.00m <sup>3</sup> ). volumes that have accumulated from the bot show 0%; however, each tank has the car of show 0%; The amount of the residual wat gift ha LPS and toother facilities. Casium adsorption apparatus and 3rd Cet us (0m <sup>3</sup> ) caratus (3650m <sup>3</sup> ) caratus (3650m <sup>3</sup> ) caratus (3650m <sup>3</sup> ) tans of 7 a.m., October 4. (771). 2nd Cestum adsorption apparatus tan so for 7 a.m., October 4.	capacity 700m <sup>3 *3</sup> 6,372 la con the bottom tom of the tanks to pacify that accomodates the ranks to the ranks to the ranks to see that accomodates the ranks to concentrated sium adsorption apparatus.	
Facility         volume         last report         T/B *8           Unit 1         Approx. 2,480m <sup>3</sup> No change         —           Unit 2         Approx. 8,040m <sup>3</sup> - 110m <sup>3</sup> T.P 136           Unit 3         Approx. 9,520m <sup>3</sup> + 50m <sup>3</sup> T.P 112           Unit 4         Approx. 9,520m <sup>3</sup> + 50m <sup>3</sup> T.P 138           Total         Approx. 28,900m <sup>3</sup> -         -           Main operations that have been conducted during the period from Septemb         -         -           Uo other work, water transfer to the buildings (Units 1-4, Centralized ra         -         -           - The operations of the Cesium Adsorption Apparatus have been conducted to reparatus have been conducted to reparatus have been conducted to the puildings (Units 1-4, Centralized ra         -           - The operations of the Casium Adsorption Apparatus have been conducted to reparatus have been conducted to reparatus have been conducted to the cosium Adsorption Apparatus have been conducted to reparatus have been conducted cosium Adsorption Apparatus have been conducted to reparatus have been conduct	Process Main Building High Temperature Incinerator Building Total Total	Volume Approx. 9,400m <sup>3</sup> Approx. 3,150m <sup>3</sup> Approx. 12,550m <sup>3</sup> Approx. 12,550m <sup>3</sup> Approx. 12,550m <sup>3</sup>	last report - 860m <sup>3</sup> + 250m <sup>3</sup> 4, 2018.] lity was conduct r necessary.	*8 T.P. 916 T.P. 361	(9/27-10/4) Approx. 4,030m <sup>3</sup> 7	treated volume Approx. 2,000,080m <sup>3</sup> 7 7 1 Tr 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Sludge Used vessels  efigures of the data are treated as a re figures of the storage volume do not the tanks to the high of as-called of abevater reaeving tank (apport. 900 abevater receiving tank (apport. 900 abevater receiving tank (apport. 900 abevater receiving tank (apport. 900 abevater the storage volume that accure figure of Residuater includes the height of as-called 'down stale (DS), ore than the storage volume that accure figure of Residuater includes the height of as-called 'down stale (DS) abevater is accurated volume the height of as-called 'down stale (DS) abevater is accurated and the reset and amount cessite. Cessite abevater is accurated amount cessite. Cessite abevater is accurated vessels (Cessite) abevater is accurated vessels: Cessite) abevater is accurated vessels: Cessite abevater is accurated at the reset of the vessels: Cessite	597m <sup>3</sup> 4,137 <sup>*9</sup> 4,137 <sup>*9</sup> erence, because wat nclude those of the f whose of the f by the second the second whose water trade where water gauge ulates up to the heig where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the height adorption apparatus of double of the second the second the second the second the second the second the second the sec	I ast report No Change +8 ar levels during water transfer are not stable lowering volumes that here accumulated for water gauges abov 0%: to liquid storage tank (approx.100m <sup>3</sup> ). volumes that have accumulated from the bot show 0%; however, each tank has the car of water storage tank (approx.4.00m <sup>3</sup> ). volumes that have accumulated from the bot show 0%; however, each tank has the car of show 0%; The amount of the residual wat gift ha LPS and toother facilities. Casium adsorption apparatus and 3rd Cet us (0m <sup>3</sup> ) caratus (3650m <sup>3</sup> ) caratus (3650m <sup>3</sup> ) caratus (3650m <sup>3</sup> ) tans of 7 a.m., October 4. (771). 2nd Cestum adsorption apparatus tan so for 7 a.m., October 4.	capacity 700m <sup>3 *3</sup> 6,372 la con the bottom tom of the tanks to pacify that accomodates the ranks to the ranks to the ranks to see that accomodates the ranks to concentrated sium adsorption apparatus.	
Facility         volume         last report         T/B *8           Unit 1         Approx. 2,480m <sup>3</sup> No change         —           Unit 2         Approx. 8,040m <sup>3</sup> - 110m <sup>3</sup> T.P 136           Unit 3         Approx. 9,520m <sup>3</sup> + 50m <sup>3</sup> T.P 112           Unit 4         Approx. 9,520m <sup>3</sup> + 50m <sup>3</sup> T.P 138           Total         Approx. 28,900m <sup>3</sup> -         -           Main operations that have been conducted during the period from Septemb         -         -           Unit 4         Contralized ra         -         -           Total         Approx. 28,900m <sup>3</sup> -         -           Main operations of the Cesium Adsorption Apparatus have been suspender         -         -           - Due to other work, water transfer to the buildings (Units 1-4, Centralized ra         -         -           - The operations of the 2nd Cesium Adsorption Apparatus have been conducted to resource and share been conducted compliants of the 2nd Cesium Adsorption Apparatus have been conducted to the compliants of the Cesium Adsorption Apparatus have been conducted to the compliants of the 2nd Cesium Adsorption Apparatus have been conducted to the compliants of the Cesium Adsorption Apparatus have been conducted to the compliants of the Cesium Adsorption Apparatus have been conducted to the compliants of the Cesium Adsorption Apparatus have been conducted to the compliants of the Cesium Adsorp	Process Main Building High Temperature Incinerator Building Total Total	Volume Approx. 9,400m <sup>3</sup> Approx. 3,150m <sup>3</sup> Approx. 12,550m <sup>3</sup> Approx. 12,550m <sup>3</sup> Approx. 12,550m <sup>3</sup>	last report - 860m <sup>3</sup> + 250m <sup>3</sup> 4, 2018.] lity was conduct r necessary.	*8 T.P. 916 T.P. 361	(9/27-10/4) Approx. 4,030m <sup>3</sup> 7	treated volume Approx. 2,000,080m <sup>3</sup> 7 7 1 Tr 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Sludge Used vessels  efigures of the data are treated as a re figures of the storage volume do not the tanks to the high of as-called of abevater reaeving tank (apport. 900 abevater receiving tank (apport. 900 abevater receiving tank (apport. 900 abevater receiving tank (apport. 900 abevater the storage volume that accure figure of Residuater includes the height of as-called 'down stale (DS), ore than the storage volume that accure figure of Residuater includes the height of as-called 'down stale (DS) abevater is accurated volume the height of as-called 'down stale (DS) abevater is accurated and the reset and amount cessite. Cessite abevater is accurated amount cessite. Cessite abevater is accurated vessels (Cessite) abevater is accurated vessels: Cessite) abevater is accurated vessels: Cessite abevater is accurated at the reset of the vessels: Cessite	597m <sup>3</sup> 4,137 <sup>*9</sup> 4,137 <sup>*9</sup> erence, because wat nclude those of the f whose of the f by the second the second whose water trade where water gauge ulates up to the heig where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the heig so ne of the volumes where water gauge ulates up to the height adorption apparatus of double of the second the second the second the second the second the second the second the sec	I ast report No Change +8 ar levels during water transfer are not stable lowering volumes that here accumulated for water gauges abov 0%: to liquid storage tank (approx.100m <sup>3</sup> ). volumes that have accumulated from the bot show 0%; however, each tank has the car of water storage tank (approx.4.00m <sup>3</sup> ). volumes that have accumulated from the bot show 0%; however, each tank has the car of show 0%; The amount of the residual wat gift ha LPS and toother facilities. Casium adsorption apparatus and 3rd Cet us (0m <sup>3</sup> ) caratus (3650m <sup>3</sup> ) caratus (3650m <sup>3</sup> ) caratus (3650m <sup>3</sup> ) tans of 7 a.m., October 4. (771). 2nd Cestum adsorption apparatus tan so for 7 a.m., October 4.	capacity 700m <sup>3 *3</sup> 6,372 la con the bottom tom of the tanks to pacify that accomodates the ranks to the ranks to the ranks to see that accomodates the ranks to concentrated sium adsorption apparatus.	

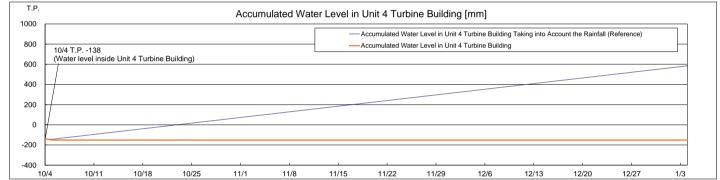
#### Attachment-2

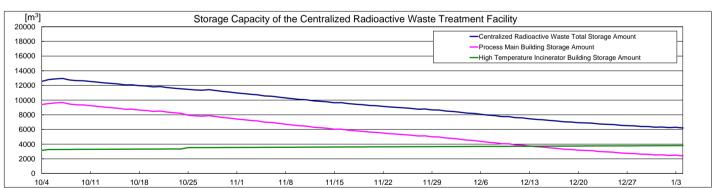
## Storage and treatment of high level radioactive accumulated water (as of October 11, 2018)

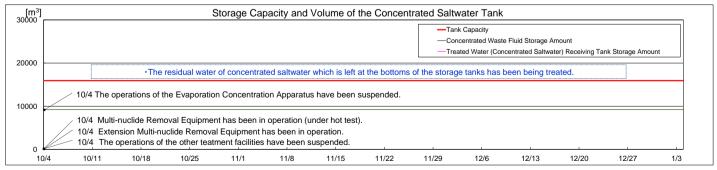












Note

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, 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.

In the surrounding areas or the Fukushima balanch 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 Dalichi 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.

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