## Situation of Storage and Treatment of Accumulated Water including Highly Concentrated Radioactive Materials at Fukushima Daiichi Nuclear Power Station (424th Release)

October 28, 2019 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 24, 2019 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 31, 2019, 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.

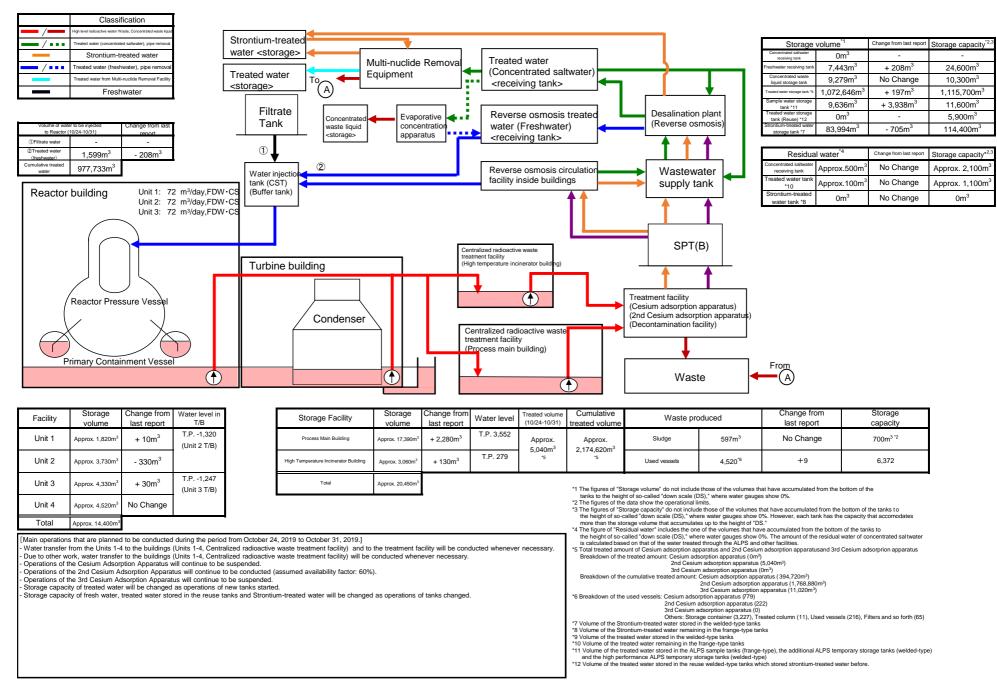
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#### Attachment-1

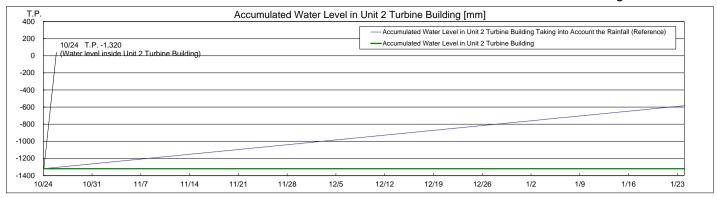
### Storage and treatment of high level radioactive accumulated water (as of October 24, 2019)

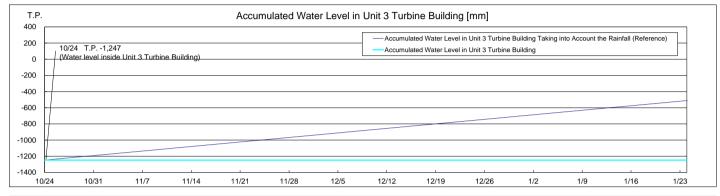
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Image:			X	$\sim$			$\rightarrow$	C	entralized rad	ioactive					,	5.9E+07 Bq/L (Sa	
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Operations of the 3rd Cesium Adsorption Apparatus have been suspended.       3rd Cesium adsorption apparatus (0%) <sup>1</sup> Streakdown of the cumulative treated amount: Cesium adsorption apparatus (1763 840m <sup>3</sup> )       2rd Oesium adsorption apparatus (1763 840m <sup>3</sup> )         3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )       2rd Oesium adsorption apparatus (1763 840m <sup>3</sup> )         3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )       2rd Oesium adsorption apparatus (1763 840m <sup>3</sup> )         3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )       3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )         3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )       3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )         3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )       3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )         3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )       3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )         3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )       3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )         3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )       3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )         3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )       3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )         3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )       3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )         3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )       3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )         3rd Cesium adsorption apparatus (1763 840m <sup>3</sup> )       3rd Cesium adsorption apparatus (176	Facility     Stora       Unit 1     Approx. 1       Unit 2     Approx. 4       Unit 3     Approx. 4       Unit 4     Approx. 4       Init 4     Approx. 1       lain operations that hav       Vater transfer from the lower towrk, water work, water	age Ch Inme la 1,810m <sup>3</sup> 4,060m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> e been conc Units 1-4 to r transfer to	nange from ast report - 190m <sup>3</sup> - 60m <sup>3</sup> - 180m <sup>3</sup> + 270m <sup>3</sup> ducted during the buildings	Water level in T/B * <sup>6</sup> - T.P 1,320 T.P 1,247 IT.P 1,057 the period from O (Units 1-4, Central	ized radioactive ized radioactive	Process Main Building High Temperature Incinerator Building Total  (the previous announcement d e waste treatment facility) and t	Storage volume Approx. 15,110m <sup>3</sup> Approx. 2,930m <sup>3</sup> Approx. 18,040m <sup>3</sup> ata) to October 24	Change from last report + 1,450m <sup>3</sup> No Change	Water level * <sup>8</sup> T.P. 2,902 T.P. 176	Treated volume (10/17-10/24) Approx. 3,510m <sup>3</sup> 77	Cumulative treated volum Approx. 2,169,580m <sup>3</sup> -7	(Decontamination fac (Decontamination fac (Decontaminat	duced 597m <sup>3</sup> 4,511 <sup>*9</sup> areference, because water tori include those of the for 4,511 <sup>*9</sup> areference, because water gauges cumulates up to the holigs. Where the one of the volumes 6) <sup>*</sup> where water gauges cumulates up to the holigs. Where water gauges cumulates up to the holigs. Where water gauges cumulates up to the holigs. Where water gauges b) <sup>*</sup> where water gauges	High Temperature Inci Exit of second cesium ads From Change from last report No Change +1 where during water transfer are diroxing outputs that have accurate water gauges above 0%: liquid storage tank (approx. 6) water gauges above 0%: liquid storage tank (approx. 6) water gauges above 0%: liquid storage tank (approx. 6) water gauges above 0%: not water gauges above 0%: liquid storage tank (approx. 6) water gauges above 0%: liquid storage tank (approx. 6) that have accumulated from the lishow 0%. The amount of the new final store 0%. The amount of the new lishow 0%. The amount of the new final store 0%. The amount of the new final store 0%. The amount of the new final store 0%.	nerator Building corption apparatus corption apparatus and stable. mulated from the bott mulated from the bott mulated from the bott mon?). m the bottom of the tasks the capacity that : as the capacity that : bottom of the tasks to bottom of the tasks to sidual water of conce	4.0E+02 Bg/L (Sa Storage capacity 700m <sup>3 *3</sup> 6,372 tom tarks to accomodates or intrated	mpled on April 10, 20
Srd Cesium adsorption apparatus (11.020 m <sup>2</sup> ) *8 The data of the water levels in the Reador Buildings are holds as of 5 a.m., October 24, *9 Breakdown of the used vessels: Ceshum: adsorption apparatus (279), 2nd Cesium adsorption apparatus (20) Ceshum: Strange container (3248), 2nd Cesium adsorption apparatus (200, 3nd Cesium adsor	Facility     Stora       Unit 1     Approx. 1       Unit 2     Approx. 4       Unit 3     Approx. 4       Unit 4     Approx. 4       Unit 4     Approx. 1       iain operations that haw Valer transfer from the I Due to other work, water       Det ot the work, water       Approx 17, operations of the Cesiur rom October 17, operations	age Ch me la 1,810m <sup>3</sup> 4,060m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup>	nange from ast report - 190m <sup>3</sup> - 60m <sup>3</sup> - 180m <sup>3</sup> + 270m <sup>3</sup> ducted during the buildings the buildings n Apparatus I and Cesium J	Water level in T/B + <sup>0</sup> -           T.P 1,320           T.P 1,247           1T.P 1,057	ized radioactive ized radioactive ded. us have been r	Process Main Building High Temperature Incinerator Building Total O (the previous announcement d e waste treatment facility) and t e waste treatment facility) was c	Storage volume Approx. 15,110m <sup>3</sup> Approx. 2,930m <sup>3</sup> Approx. 18,040m <sup>3</sup> ata) to October 24 o the treatment fa onducted whenev	Change from last report + 1,450m <sup>3</sup> No Change	Water level * <sup>8</sup> T.P. 2,902 T.P. 176	Treated volume (10/17-10/24) Approx. 3,510m <sup>3</sup> 77	Cumulative treated volum Approx. 2,169,580m <sup>3</sup> -7	(Decontamination fac (Decontamination fac (Decontaminat	duced 597m <sup>3</sup> 4,511 <sup>9</sup> and a control of the formation	High Temperature Inci Ext of second cesium ads From Association additional additional Change from Iast report No Change +1 Weeks during water transfer are floxing volumes that have accur water gauges above 0%: liquid storage tank (approx. 60 users	nerator Building corption apparatus corption apparatus and stable. mulated from the bott mulated from the bott mulated from the bott mon?). m the bottom of the tasks the capacity that : as the capacity that : bottom of the tasks to bottom of the tasks to sidual water of conce	4.0E+02 Bg/L (Sa Storage capacity 700m <sup>3 *3</sup> 6,372 tom tarks to accomodates or intrated	mpled on April 10, 20
<ul> <li><sup>1</sup><sup>o</sup> B Preakdown of the used vessels: Cestum adsorption apparatus (222), 3rd Cesium adsorption apparatus (20) Others: Storage and readed cultural (17), Used Vessel (216), Filters and sotorption (18), Filters and Sotorption (18), Filters and Sotorption (18</li></ul>	Facility     Stora volu       Unit 1     Approx. 1       Unit 2     Approx. 4       Unit 3     Approx. 4       Unit 4     Approx. 4       Init 4     Approx. 1       Iain operations that haw Nater transfer from the I Due to other work, water Operations of the Cesiur rom October 17, opera	age Ch me la 1,810m <sup>3</sup> 4,060m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup>	nange from ast report - 190m <sup>3</sup> - 60m <sup>3</sup> - 180m <sup>3</sup> + 270m <sup>3</sup> ducted during the buildings the buildings n Apparatus I and Cesium J	Water level in T/B + <sup>0</sup> -           T.P 1,320           T.P 1,247           1T.P 1,057	ized radioactive ized radioactive ded. us have been r	Process Main Building High Temperature Incinerator Building Total O (the previous announcement d e waste treatment facility) and t e waste treatment facility) was c	Storage volume Approx. 15,110m <sup>3</sup> Approx. 2,930m <sup>3</sup> Approx. 18,040m <sup>3</sup> ata) to October 24 o the treatment fa onducted whenev	Change from last report + 1,450m <sup>3</sup> No Change	Water level * <sup>8</sup> T.P. 2,902 T.P. 176	Treated volume (10/17-10/24) Approx. 3,510m <sup>3</sup> 77	Cumulative treated volum Approx. 2,169,580m <sup>3</sup> '7 '2 '2 '5 '6 '7	(Decontamination fac (Decontamination fac (Decontaminat	duced 597m <sup>3</sup> 4,511 <sup>*9</sup> a reference, becaute water to include those of the to the value construction to include those of the to the value of the values the of the values of the to b). When water gauges the of the values of the values the of the values of the values of the value of the values of the value of the values the of the values of the values of the values of the values of the value of the values of the value of the values of the values of the values of the value of the values of the values of the values of the values of the values of the values	High Temperature Inci Exit of second cesium ads From last report No Change from last report No Change +1 r levels during water transfer are reliaving volumes that have accur in the second second second second in the second second second second in the second second second second the second	enerator Building proprion apparatus orprion apparatus enot stable. mulated from the bott mulated from the bott om <sup>3</sup> ). m the bottom of the task sidual water of conce sidual water of conce and 3rd Cesium adsorp	4.0E+02 Bg/L (Sa Storage capacity 700m <sup>3 *3</sup> 6,372 tom tarks to accomodates or intrated	mpled on April 10, 201
Others: Storage container (218), Treated column (11), Used vessel (216), Filters and so forth (65) 10 Volume of the Storotium-treated water stored in the welds4/pet anks 11 Volume of the Stored in the velds4/pet anks 14 Volume of the treated water remaining in the frange-type tanks 13 Volume of the treated water remaining in the frange-type tanks 14 Volume of the treated water remaining in the frange-type tanks 14 Volume of the treated water remaining in the frange-type tanks 14 Volume of the treated water remaining in the frange-type tanks 14 Volume of the treated water remaining in the frange-type tanks 14 Volume of the treated water remaining in the frange-type tanks 14 Volume of the treated water remaining in the frange-type tanks 14 Volume of the treated water remaining in the frange-type tanks	Facility     Stora volu       Unit 1     Approx. 1       Unit 2     Approx. 4       Unit 3     Approx. 4       Unit 4     Approx. 4       Unit 4     Approx. 1       Aain operations that hav Water transfer from the ID Due to other work, water Operations of the Cesiur From October 17, opera	age Ch me la 1,810m <sup>3</sup> 4,060m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup>	nange from ast report - 190m <sup>3</sup> - 60m <sup>3</sup> - 180m <sup>3</sup> + 270m <sup>3</sup> ducted during the buildings the buildings n Apparatus I and Cesium J	Water level in T/B + <sup>0</sup> -           T.P 1,320           T.P 1,247           1T.P 1,057	ized radioactive ized radioactive ded. us have been r	Process Main Building High Temperature Incinerator Building Total O (the previous announcement d e waste treatment facility) and t e waste treatment facility) was c	Storage volume Approx. 15,110m <sup>3</sup> Approx. 2,930m <sup>3</sup> Approx. 18,040m <sup>3</sup> ata) to October 24 o the treatment fa onducted whenev	Change from last report + 1,450m <sup>3</sup> No Change	Water level * <sup>8</sup> T.P. 2,902 T.P. 176	Treated volume (10/17-10/24) Approx. 3,510m <sup>3</sup> 77	Cumulative treated volum Approx. 2,169,580m <sup>3</sup> 7 7 7 7 7 7 7 7 7 7 7	(Decontamination fac (Decontamination fac (Decontaminat	duced 597m <sup>3</sup> 4,511 <sup>19</sup> a reference, because water 1,500° Constructions of the for 4,511 <sup>19</sup> a reference, because water 1,500° Construction and 1,500° Construction	High Temperature Inci Exit of second cesium ads From Action Change from last report No Change +1 No Change +1 revels during water transfer are ficility and genes above water gauges show 0%: incide strange tank (approx. 10: divide st	enerator Building proprion apparatus orprion apparatus enot stable. mulated from the bott mulated from the bott om <sup>3</sup> ). m the bottom of the task sidual water of conce sidual water of conce and 3rd Cesium adsorp	4.0E+02 Bg/L (Sa Storage capacity 700m <sup>3 *3</sup> 6,372 tom tarks to accomodates or intrated	mpled on April 10, 201
*11 Volume of the Storoitum-treated water remaining in the frange-type tanks *12 Volume of the treated water remaining in the frange-type tanks *13 Volume of the treated water remaining in the frange-type tanks *14 Volume of the treated water remaining is some tanks (frange-type), the additional ALPS temporary storage tanks (welded-type)	Facility     Stora volu       Unit 1     Approx. 1       Unit 2     Approx. 4       Unit 3     Approx. 4       Unit 4     Approx. 4       Unit 4     Approx. 1       fain operations that haw Nater transfer from the ID Det to other work, water Operations of the Cesiur From October 17, opera	age Ch me la 1,810m <sup>3</sup> 4,060m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup>	nange from ast report - 190m <sup>3</sup> - 60m <sup>3</sup> - 180m <sup>3</sup> + 270m <sup>3</sup> ducted during the buildings the buildings n Apparatus I and Cesium J	Water level in T/B + <sup>0</sup> -           T.P 1,320           T.P 1,247           1T.P 1,057	ized radioactive ized radioactive ded. us have been r	Process Main Building High Temperature Incinerator Building Total O (the previous announcement d e waste treatment facility) and t e waste treatment facility) was c	Storage volume Approx. 15,110m <sup>3</sup> Approx. 2,930m <sup>3</sup> Approx. 18,040m <sup>3</sup> ata) to October 24 o the treatment fa onducted whenev	Change from last report + 1,450m <sup>3</sup> No Change	Water level * <sup>8</sup> T.P. 2,902 T.P. 176	Treated volume (10/17-10/24) Approx. 3,510m <sup>3</sup> 77	Cumulative treated volum Approx. 2,169,580m <sup>3</sup> -7 -2 -4 -5 -6 -7 -7	(Decontamination fac (Decontamination fac (Decontaminat	duced 597m <sup>3</sup> 4,511 <sup>19</sup> a reference, because wetter to rinclude those of the to to rinclude those of the to the other wetter gauges to rinclude those of the to be of the vulner tested through 137. tion advantos and the vulner to result the vulner tested through the water tradeed the vulner to result the vulner tested through the vulner tested thr	High Temperature Inci Exit of second cesium ads Exit of second cesium ads Change from last report No Change +1 Works during water transfer an Blowng vulners that have accur water gauges thave of %: liquid storage tank (approx. 6t water gauges thave of %: liquid storage tank (approx. 6t water gauges thave of %: So that have accurulated for divers of %: The and one of the facilities. Cesium adsorption apparatus an story 0%: The and one of the facilities. Cesium adsorption apparatus (an story 0%): The and one of the facilities. Cesium adsorption apparatus (an story 0%): The and one of the facilities. Cesium adsorption apparatus (1763.047) on apparatus (37207)) option signatus (1763.047) is an of a nn, October 24. 77), 21d Cesium adsorption apparatus	nerator Building corption apparatus corption apparatus or not stable. mulated from the bottom mulated from the bottom of the 1 mulated from the bottom of the 1 mulat	4.0E+02 Bg/L (Sa Storage capacity 700m <sup>3 *3</sup> 6,372 tom tanks to accomdates onntrated stion apparatus.	Impled on April 10, 201 Impled on June 4, 201
*13 Volume of the treated water remaining in the frange-type tanks *14 Volume of the treated water issonie tanks (restored to the ALPS temporary storage tanks (welded-type)	Facility     Stora       Unit 1     Approx. 1       Unit 2     Approx. 4       Unit 3     Approx. 4       Unit 4     Approx. 4       Unit 4     Approx. 1       iain operations that haw Valer transfer from the I Due to other work, water       Det ot the work, water       Approx 17, operations of the Cesiur rom October 17, operations	age Ch me la 1,810m <sup>3</sup> 4,060m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup>	nange from ast report - 190m <sup>3</sup> - 60m <sup>3</sup> - 180m <sup>3</sup> + 270m <sup>3</sup> ducted during the buildings the buildings n Apparatus I and Cesium J	Water level in T/B + <sup>0</sup> -           T.P 1,320           T.P 1,247           1T.P 1,057	ized radioactive ized radioactive ded. us have been r	Process Main Building High Temperature Incinerator Building Total O (the previous announcement d e waste treatment facility) and t e waste treatment facility) was c	Storage volume Approx. 15,110m <sup>3</sup> Approx. 2,930m <sup>3</sup> Approx. 18,040m <sup>3</sup> ata) to October 24 o the treatment fa onducted whenev	Change from last report + 1,450m <sup>3</sup> No Change	Water level * <sup>8</sup> T.P. 2,902 T.P. 176	Treated volume (10/17-10/24) Approx. 3,510m <sup>3</sup> 77	Cumulative treated volum Approx. 2,169,580m <sup>3</sup> '7 '2 '2 '2 '2 '2 '2 '2 '2 '2 '2 '2 '2 '2	(Decontamination fac (Decontamination fac (Decontaminat	duced 597m <sup>3</sup> 4,511 <sup>9</sup> a reference, becaute water to include those of the to to include those of the to to include those of the to the total of the volumes atomal immediate and the total to include those of the total total atoma atoma atoma atoma atomal immediates and the total total atoma ato	High Temperature Inci Exit of second cesium ads From last report No Change from last report No Change +1 r levels during water transfer are reliaving valumes that have accur in the second second second second +1 r levels during water transfer are reliaving valumes that have accur in the second second second second +1 dwater storage tank (approx. 60 dwater storage tank (approx. 61 dwater storage tank (approx. 61	nerator Building corption apparatus corption apparatus or not stable. mulated from the bottom mulated from the bottom of the 1 mulated from the bottom of the 1 mulat	4.0E+02 Bg/L (Sa Storage capacity 700m <sup>3 *3</sup> 6,372 tom tanks to accomdates onntrated stion apparatus.	Impled on April 10, 201 ampled on June 4, 201
	Facility         Storr volu           Unit 1         Approx.1           Unit 2         Approx.4           Unit 3         Approx.4           Unit 4         Approx.4           Total         Approx.1           ain operations that hav valer transfer from the Cesiu to other work the operations of the Cesiu	age Ch me la 1,810m <sup>3</sup> 4,060m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup>	nange from ast report - 190m <sup>3</sup> - 60m <sup>3</sup> - 180m <sup>3</sup> + 270m <sup>3</sup> ducted during the buildings the buildings n Apparatus I and Cesium J	Water level in T/B + <sup>0</sup> -           T.P 1,320           T.P 1,247           1T.P 1,057	ized radioactive ized radioactive ded. us have been r	Process Main Building High Temperature Incinerator Building Total O (the previous announcement d e waste treatment facility) and t e waste treatment facility) was c	Storage volume Approx. 15,110m <sup>3</sup> Approx. 2,930m <sup>3</sup> Approx. 18,040m <sup>3</sup> ata) to October 24 o the treatment fa onducted whenev	Change from last report + 1,450m <sup>3</sup> No Change	Water level * <sup>8</sup> T.P. 2,902 T.P. 176	Treated volume (10/17-10/24) Approx. 3,510m <sup>3</sup> 77	Cumulative treated volum Approx. 2,169,580m <sup>3</sup> 7 * * * * * * * * *	(Decontamination fac (Decontamination fac (Decontaminat	duced 597m <sup>3</sup> 4,511 <sup>19</sup> a reference, because water for local water and the second	High Temperature Inci Exit of second cesium ads From Action Change from last report No Change +1 No Change +1 r lovels during water transfer are following volumes that have accur water gages show 0%: licitud strange tank (approx. 10 divide strange tank (approx. 20 divide strange tank	nerator Building orption apparatus orption apparatus enot stable. mulated from the bott om <sup>3</sup> ). With the construction of the fanks to mas the capacity that bottom of the tanks to capacity that bottom of concernent of capacity that bottom of the tanks to capacity that bottom of the tanks to capacity that bottom of concernent of	4.0E+02 Bq/L (Sa Storage capacity 700m <sup>3 *3</sup> 6,372 tom tanks to accomodates o transition accomodates o capacity tom tanks to accomodates o capacity tom tanks to accomodates o capacity tom tanks to accomodates o capacity tanks to accomodates o tom tanks to accomodates o tom tanks to accomodates o tom tanks to accomodates o tom tanks to accomodates o tom tanks to accomodates o tom tanks to accomodates tom tanks to accomodates o tanks to accomodates o tom tanks to accomodates o tom tanks to accomodates o tom tanks to accomodates tom tanks to accomodates tom tanks to accomodates tom tanks to accomodates tom tanks to accomodates tom tanks to accomodates tom tanks to tom tanks to accomodates tom tanks to tom tanks to tom tanks to tom tom tanks to tom tanks to tom tom tanks to tom tom tom tom tom tom tom t	Impled on April 10, 20 ampled on June 4, 201
anvina ina initra province un no anti-france and a service an	Facility         Storr volu           Unit 1         Approx.1           Unit 2         Approx.4           Unit 3         Approx.4           Unit 4         Approx.4           Total         Approx.1           ain operations that hav valer transfer from the Cesiu to other work the operations of the Cesiu	age Ch me la 1,810m <sup>3</sup> 4,060m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup> 4,520m <sup>3</sup>	nange from ast report - 190m <sup>3</sup> - 60m <sup>3</sup> - 180m <sup>3</sup> + 270m <sup>3</sup> ducted during the buildings the buildings n Apparatus I and Cesium J	Water level in T/B + <sup>0</sup> -           T.P 1,320           T.P 1,247           1T.P 1,057	ized radioactive ized radioactive ded. us have been r	Process Main Building High Temperature Incinerator Building Total O (the previous announcement d e waste treatment facility) and t e waste treatment facility) was c	Storage volume Approx. 15,110m <sup>3</sup> Approx. 2,930m <sup>3</sup> Approx. 18,040m <sup>3</sup> ata) to October 24 o the treatment fa onducted whenev	Change from last report + 1,450m <sup>3</sup> No Change	Water level * <sup>8</sup> T.P. 2,902 T.P. 176	Treated volume (10/17-10/24) Approx. 3,510m <sup>3</sup> 77	Cumulative treated volum Approx. 2,169,580m <sup>3</sup> 7 * * * * * * * * *	(Decontamination fac (Decontamination fac (Decontaminat	duced 597m <sup>3</sup> 4,511 <sup>9</sup> a reference, because water 6,597m <sup>3</sup> 4,511 <sup>19</sup> a reference, because water 6,00m <sup>3</sup> , Concentrate water 8,00m <sup>3</sup> , Stonium-trade 1,50 <sup>1</sup> , where water guages 1,50 <sup>1</sup> , where water guages 1,5	High Temperature Inci Exit of second cesium ads From Action and the Action of the Action of the Action Action of the Action of the Action of the Action Action of the Action of the Action of the Action Action of the Action of the Action of the Action Action of the Action of the Action of the Action Action of the Action of the Action of the Action Action of the Action of the Action of the Action Action of the Action of the Action of the Action Action of the Action of the Action of the Action Action of the Action of the Action of the Action Action of the Action of the Action of the Action Action of the Action of the Action of the Action of the Action Action of the Action of the Acti	nerator Building orption apparatus orption apparatus enot stable. mulated from the bott om <sup>3</sup> ). With the construction of the fanks to mas the capacity that bottom of the tanks to capacity that bottom of concernent of capacity that bottom of the tanks to capacity that bottom of the tanks to capacity that bottom of concernent of	4.0E+02 Bq/L (Sa Storage capacity 700m <sup>3 *3</sup> 6,372 tom tanks to accomodates o transition accomodates o capacity tom tanks to accomodates o capacity tom tanks to accomodates o capacity tom tanks to accomodates o capacity tanks to accomodates o tom tanks to accomodates o tom tanks to accomodates o tom tanks to accomodates o tom tanks to accomodates o tom tanks to accomodates o tom tanks to accomodates tom tanks to accomodates o tanks to accomodates o tom tanks to accomodates o tom tanks to accomodates o tom tanks to accomodates tom tanks to accomodates tom tanks to accomodates tom tanks to accomodates tom tanks to accomodates tom tanks to accomodates tom tanks to tom tanks to accomodates tom tanks to tom tanks to tom tanks to tom tom tanks to tom tanks to tom tom tanks to tom tom tom tom tom tom tom t	Impled on April 10, 201 Impled on June 4, 201

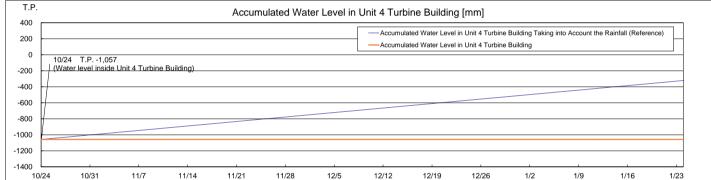
# Storage and treatment of high level radioactive accumulated water (as of October 31, 2019)

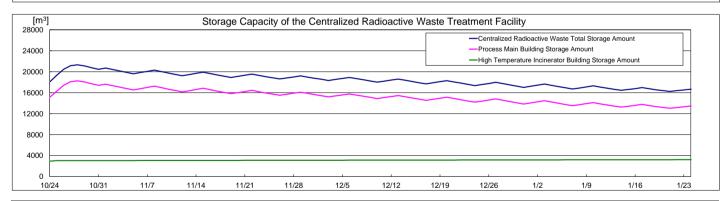


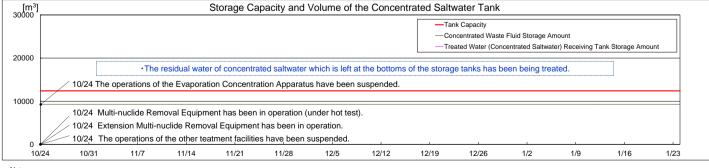
Attachment-3











- The amount of water treated through the 2nd Cesium Adsorption Apparatus is estimated to be 780m 3/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 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
- "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
- "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
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- "Accumulated Water Levels in Unit 2, 4 and 4 T/Bs Taking into Account the Rainfall" are simulated water levels
- The taking th Of 8mm a day when the surrounding areas of the Fukushima Daiichi Nuclear Power Station have the rainfall equal to the average amount of rain which fell for three months from August to October in 2015 to 2017.
 Unit 2 Turbine Building water level is controled by retained water transfer pumps in the Unit 2 reactor building.
 Unit 3 Turbine Building water level is controled by retained water transfer pumps in the Unit 3 turbine building.

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