Situation of Storage and Treatment of Accumulated Water containing Highly Concentrated Radioactive Materials at Fukushima Daiichi Nuclear Power Station (694th Release)

March 31, 2025 Tokyo Electric Power Company Holdings, Inc.

1. Introduction

This document is to report the following matters in accordance with the instruction of "Installment of treatment facility and storing facility of water containing highly concentrated radioactive materials at Fukushima Daiichi Nuclear Power Station of the Tokyo Electric Power Company (Instruction) "(NISA No. 6, June 8, 2011), dated on June 9, 2011.

<Instruction>

TEPCO should report to NISA the situation of storing and treatment of the contaminated water in the Power Station and the future forecast* based upon the current situation 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 Facilities as of March 27, 2025 are shown in the Attachment -1.

3. Forecast of storing and treatment

Accumulated water in the Unit 1 to 4 buildings is transferred to the Process Main Building and/or High Temperature Incinerator Building as Accumulated Water Storing Facilities systematically considering the stored amount in the Accumulated Water Storing Facilities and the operating situation of the Radioactive Material Treatment Equipment.

Transferred accumulated water is treated at the Radioactive Material Treatment Equipment systematically considering the state of storage and transfer of Accumulated Water Storing Facilities. Specifically, in order to suppress the flow of groundwater into the buildings and reduce the amount of accumulated water being generated, we are planning to transfer accumulated water from the Unit 1 to 3 Reactor Buildings, where injected cooling water is being circulated, in accordance with the capacity of the Accumulated Water Storing Facilities and the status of the treatment of accumulated water in the buildings, etc., while ensuring a specific difference between the levels of

accumulated water in the buildings and the water levels of subdrains in the vicinity. At other buildings where the lowermost floors have been exposed, we are planning to transfer accumulated water to keep these floor surfaces exposed.

We also treat systematically the accumulated water in the Accumulated Water Storing Facilities considering the situation of construction of Middle and Low Level Treated Water Receiving Tanks, the operation factor of the Radioactive Material Treatment Equipment and duration for maintenance. The water treated at the Radioactive Material Treatment Equipment is stored in the Middle and Low Level Treated Water Receiving Tanks.

Currently, transfer, storing and treatment with Radioactive Material Treatment Equipment of accumulated water in the buildings are being implemented systematically, and the situation can continue to be maintained. Therefore, it is expected that storing and treatment of high level radioactive accumulated water will continue to be stable in the future.

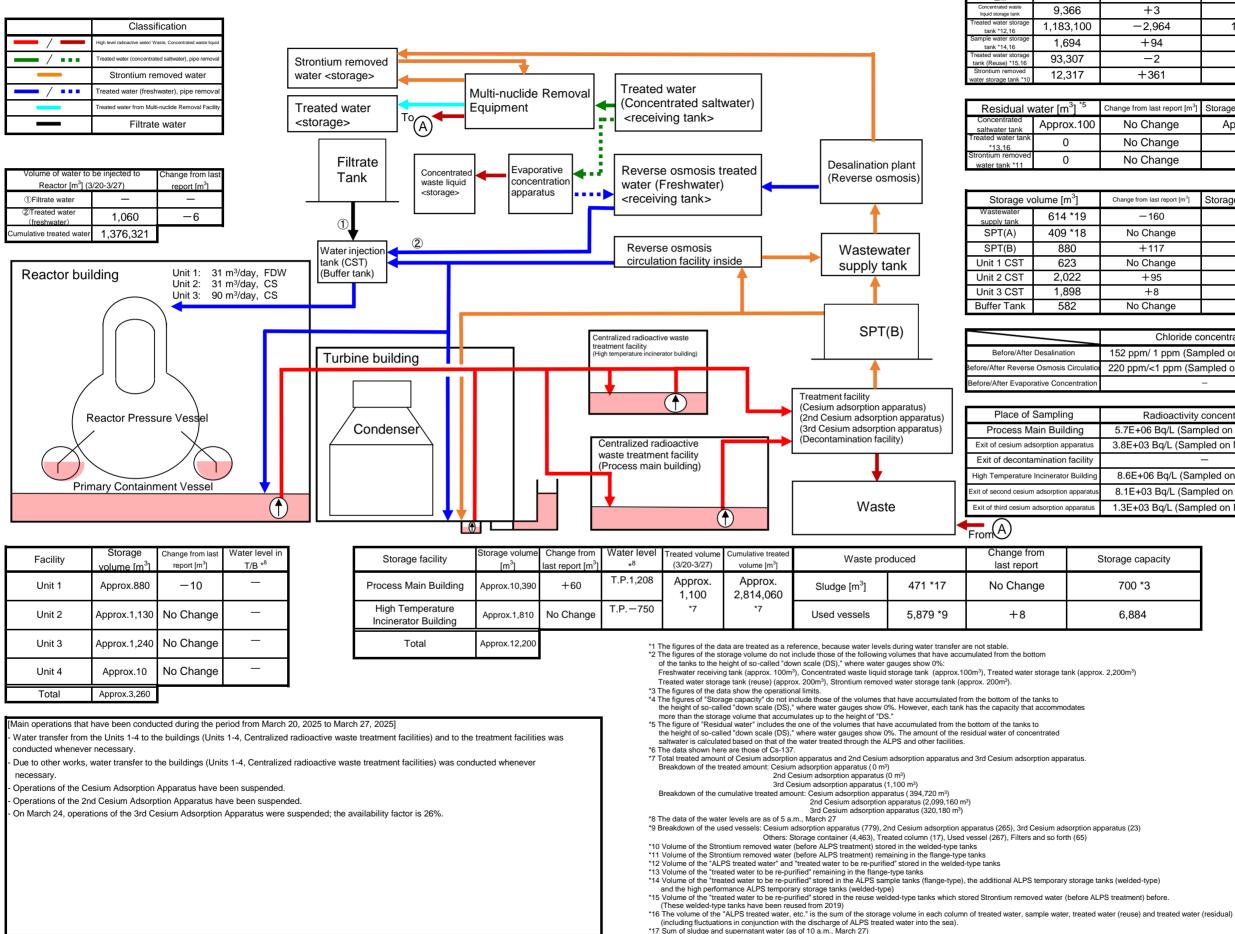
* Matters pointed out at the "Regular meeting pertaining to circulating injection cooling, accumulated water, etc. at the Fukushima Daiichi Nuclear Power Station" on October 20, 2023 (Excerpt from the meeting summary of Nuclear Regulatory Agency dated on the same day):

For the part that relates to the forecast ((1) Short term forecast, (2) Middle term forecast) based on the situation of storing and treatment of the contaminated water contained in the report document entitled "Situation of Storage and Treatment of Accumulated Water containing Highly Concentrated Radioactive Materials at Fukushima Daiichi Nuclear Power Station" submitted in accordance with "Installment of treatment facility and storing facility of water containing highly concentrated radioactive materials at Fukushima Daiichi Nuclear Power Station of the Tokyo Electric Power Company (Instruction) "(NISA No. 6, June 8, 2011) dated on June 9, 2011, it is sufficient to report to that effect if it is certain that storing and treatment of the contaminated water will continue to be stable and that the changes of water level in the Accumulated Water Storing Facilities, etc. will fall within the normal range considering the progress of contaminated water treatment at the aforementioned power station (quantitative evaluation is not required).

On the other hand, if the change of water level at the Accumulated Water Storing Facilities, etc. is expected to be different from normal due to planned work, abnormality occurrence, etc., it shall be reported in a format containing a quantitative evaluation.

END

Storage and treatment of high level radioactive accumulated water (as of March 27, 2025)



^{*18} Water transfer from SPT(A) to PMB/HTI was conducted whenever necessary. *19 Water transfer from treated water storage tanks to wastewater supply tanks was conducted whenever necessary

Attachment-1

Storage volume [m ³] *1,2		Change from last report [m ³]	Storage capacity $[m^3]^{*3,4}$
ncentrated saltwater receiving tank	0	_	_
reshwater receiving tank	5,888	-292	12,000
Concentrated waste liquid storage tank	9,366	+3	10,300
eated water storage tank *12,16	1,183,100	-2,964	1,254,200
ample water storage tank *14,16	1,694	+94	11,600
eated water storage ank (Reuse) *15,16	93,307	-2	97,200
Strontium removed ater storage tank *10	12,317	+361	24,400

m ³] ^{*5}	Change from last report [m ³]	Storage capacity $[m^3]^{*3,4}$
rox.100	No Change	Approx.1,000
0	No Change	0
0	No Change	0

[m ³]	Change from last report [m ³]	Storage volume [m ³] *3
4 *19	-160	1,200
9 *18	No Change	3,100
380	+117	3,100
523	No Change	1,600
,022	+95	2,200
,898	+8	2,200
582	No Change	700

	Chloride concentration	
ation	152 ppm/ 1 ppm (Sampled on Sep. 3, 2024)	
is Circulatio	220 ppm/<1 ppm (Sampled on Feb. 4, 2025)	
ncentration	-	

ing	Radioactivity concentration ^{*6}	
ilding	5.7E+06 Bq/L (Sampled on Nov. 5, 2024)	
apparatus	3.8E+03 Bq/L (Sampled on Mar. 22, 2019)	
on facility	_	
tor Building	8.6E+06 Bq/L (Sampled on Jul. 2, 2024)	
on apparatus	8.1E+03 Bq/L (Sampled on Feb. 1, 2024)	
n apparatus	1.3E+03 Bq/L (Sampled on Feb. 10, 2025)	

Storage capacity
700 *3
6,884