Situation of Storage and Treatment of Accumulated Water including Highly Concentrated Radioactive Materials at Fukushima Daiichi Nuclear Power Station (293rd Release)

March 3, 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 March 2, 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 OP. 3,000, 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 March 9, 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 (OP. 4,000) 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 (OP. 3,000) 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.

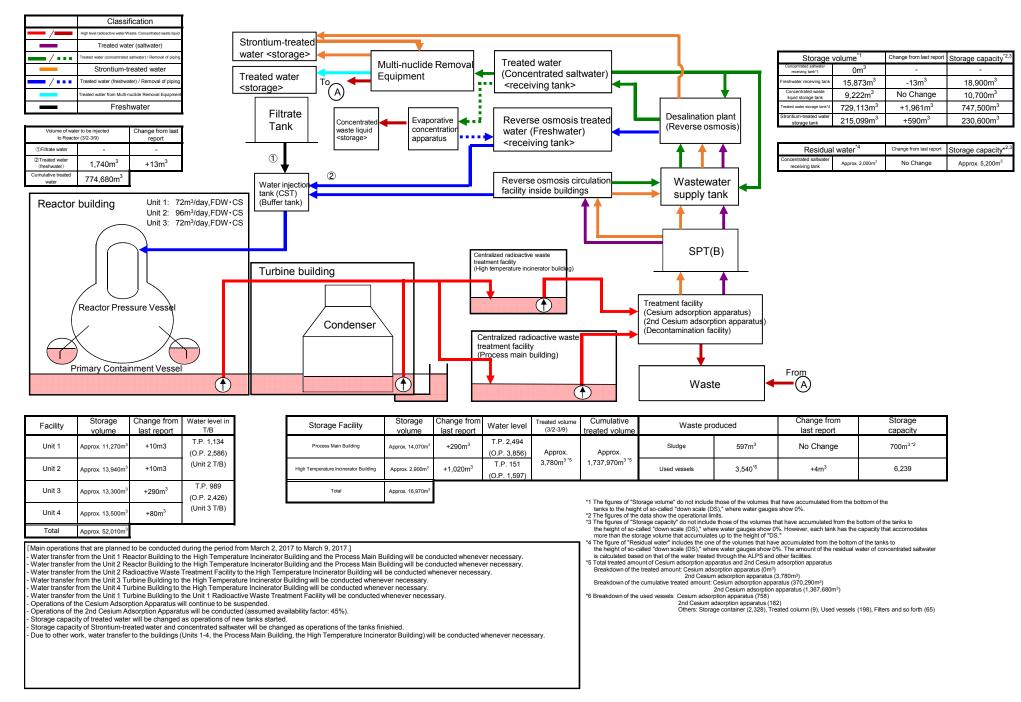
Also, the water treated at the radioactive material treatment equipment (fresh water and condensed salt water) can be stored in the middle and low level waste water tanks.

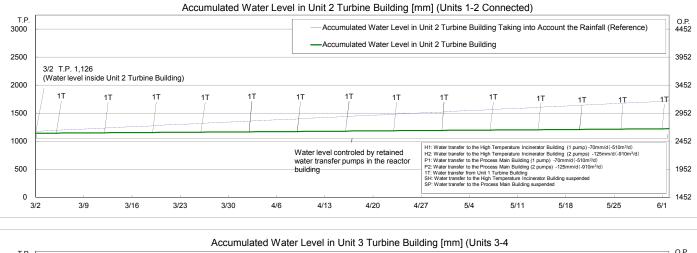
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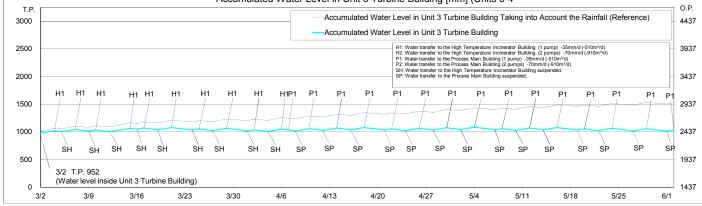
Storage and treatment of high level radioactive accumulated water (as of March 2, 2017)

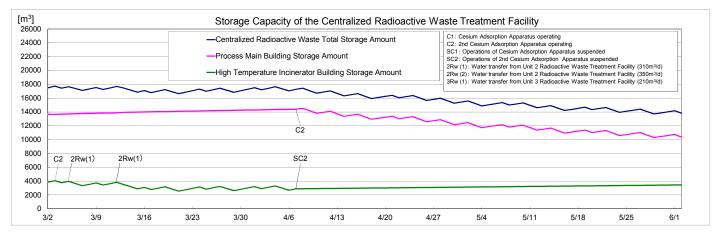
| | Classification | | | | | | | | | | Changer | volumo*1,2 | Change from last room | ort Storage capacity |
|---|---|--|---|--|---|---|--|---|---|--|--|--|--|------------------------------|
| / | | | | | | | | | | | Concentrated saltwater | volume ^{*1,2} | Change from last repo | Storage capacity |
| | ated water (saltwater) | Strontiun | n-treated | | | | | | | | receiving tank*1 | 0m ³ | - | - |
| / | (concentrated saltwater), pipe removal | water <s< td=""><td></td><td></td><td>_</td><td>Treated</td><td>water</td><td></td><td></td><td></td><td>Freshwater receiving tank</td><td>15,886m³</td><td>+493m³</td><td>18,900m³</td></s<> | | | _ | Treated | water | | | | Freshwater receiving tank | 15,886m ³ | +493m ³ | 18,900m ³ |
| | ntium-treated water | - · · | | Iulti-nuclide | Removal | Treated | | water) | | | Concentrated waste liquid storage tank | 9,222m ³ | +9m ³ | 10,700m ³ |
| Treated wa | ater (freshwater), pipe removal | Treated | | quipment | | | trated saltw | water) | | | Treated water storage tank | 727,152m ³ | +1,954m ³ | 745,100m ³ |
| Treated water | r from Multi-nuclide Removal Facility | <storage< td=""><td><u>»</u>''`(A) ╹ └_</td><td></td><td></td><td><receiv< td=""><td>ing tank></td><td></td><td></td><td>↓ </td><td>Strontium-treated water storage tank</td><td>214,509m³</td><td>+97m³</td><td>239,100m³</td></receiv<></td></storage<> | <u>»</u> ''`(A) ╹ └_ | | | <receiv< td=""><td>ing tank></td><td></td><td></td><td>↓ </td><td>Strontium-treated water storage tank</td><td>214,509m³</td><td>+97m³</td><td>239,100m³</td></receiv<> | ing tank> | | | ↓ | Strontium-treated water storage tank | 214,509m ³ | +97m ³ | 239,100m ³ |
| | Freshwater | | | | | | | | | <u> </u> | | | | |
| | | F | iltrate | | : | _ | | | Desalination | plant | Residua | al water ^{*5} | Change from last report | t Storage capac |
| Volume of water to be injecte to Reactor (2/23-3/2) | g | | Concentrated | Evapor concer | | | e osmosis t | | (Reverse osr | | Concentrated | Approx. 2,000m ³ | ³ No Change | Approx. 22,10 |
| ()Filtrate water _ | report | | allk waste liquid <storage></storage> | appara | | | reshwater) |) 🗧 | | | saltwater tank | FF - 7 | Ũ | |
| O'Treated water | - 2 2 | | | appare | | <receivi< td=""><td>ing tank></td><td></td><td></td><td></td><td>01</td><td></td><td></td><td></td></receivi<> | ing tank> | | | | 01 | | | |
| (freshwater) 1,727 | 7m ³ -100m ³ | 1 | | | | | | | TT | | Storage | e volume | Change from last report | t Storage volum |
| water 772,94 | 40m ³ | | ▼ 2 | | | r | | | | - | wastewater supply tank | 745m ³ | +81m ³ | 1,200m ³ |
| | | Wate | er injection | | | | osmosis | | | ater | SPT(B) | 900m ³ | -1019m ³ | 3,100m ³ |
| | | tank | (CŚT) | | | circulatio | on facility ins | side | supply ta | ank | B | | | |
| Reactor buildir | | | fer tank) | | | | 4 | | | | | | | |
| | | n ³ /day,FDW ·CS | | | | | | | ↑ | 1 | | | Chloride | concentration |
| / | Unit 3: 70r | n³/day,FDW • CS | | | | | | | | | Poforo/After | Desalination | | Sampled on January |
| (| | | | | | | | | | | | e Osmosis Circulation | | . , |
| Í. | \frown | | | | | ter line dan Maria | | | SPT(E | 3) | | | 200ppm/<1ppm (8 | Sampled on February |
| | | | | | trea | tralized radioactive | | | | | Before/After Evapor | rative Concentration | | _ |
| | | Tur | bine building | | (Hig | gh temperature incin | nerator building) | | | | - | | î. | |
| | | | | | | | | | T I | Ť | | Sampling | | y concentration [™] |
| | | | | | | + | | | | | | 1ain Building | | Sampled on February |
| Reactor | r Pressure Vessel | | | | | | (\uparrow) | | Treatment facility | | Exit of cesium ad | Isorption apparatus | 5.1E+02 Bq/L (S | ampled on October 1 |
| | | | | | | | | | (Cesium adsorption a | | Exit of deconta | amination facility | y | _ |
| | | | / Condenser | | L | | | | (2nd Cesium adsorpt (Decontamination fac | cility) | High Temperature | e Incinerator Building | 2.0E+07 Bq/L (Sa | ampled on December |
| \sim | \sim | | (| → I | | entralized radio | nactive | | | ,, | Exit of accord accius | m adsorption apparatus | 4 1E+02 Bg/L (S | ampled on February 7 |
| (\rightarrow) | | | | | | | | | | | Exit of second design | in addot pitori apparatua | | |
| | | | | | | aste treatment | facility | | L | | Exit of second design | n adaoi piloin apparatua | | ,, |
| | | | | | | | facility | | ↓ | | Exit of second design | n ausorpion apparatus | | |
| Primary C | Containment Vessel | | | | | aste treatment | facility | | | | From | | | |
| Primary C | Containment Vessel | | | | | aste treatment | facility uilding) | | Waste |] e | | n eusen prom appenatus | | |
| Primary C | Containment Vessel | | | • | | aste treatment | facility | | Waste | e • | | n auson provi apparatus | | |
| L Store | | | | | (F | aste treatment Process main b | facility uilding) | | | - | From | | | |
| Primary C | age Change from | Water level in T/B * ⁸ | Storage facility | Storage | | aste treatment Process main b | facility uilding) | Cumulative treated volume | Waste pro | - | | om | Storage |] |
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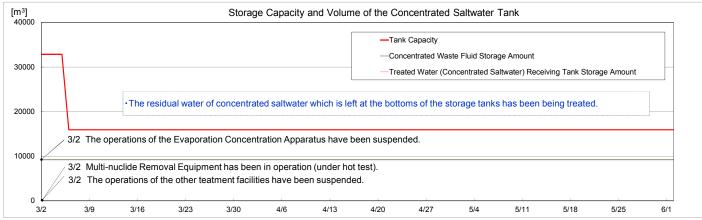
Storage and treatment of high level radioactive accumulated water (as of March 9, 2017)











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 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. - "Accumulated Water Levels in Unit 2 and 3 T/Bs Taing 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 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.