Situation of Storage and Treatment of Accumulated Water including Highly Concentrated Radioactive Materials at Fukushima Daiichi Nuclear Power Station (207th Release)

June 26, 2015

Tokyo Electric Power Company

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 June 25 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&2 and Units 3&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 situation 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

1

Facilities as of July 2, as shown in Attachment -2.

(2) Middle term forecast

Regarding accumulated water in Unit 1&2 building and Unit 3&4 building, 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 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 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.

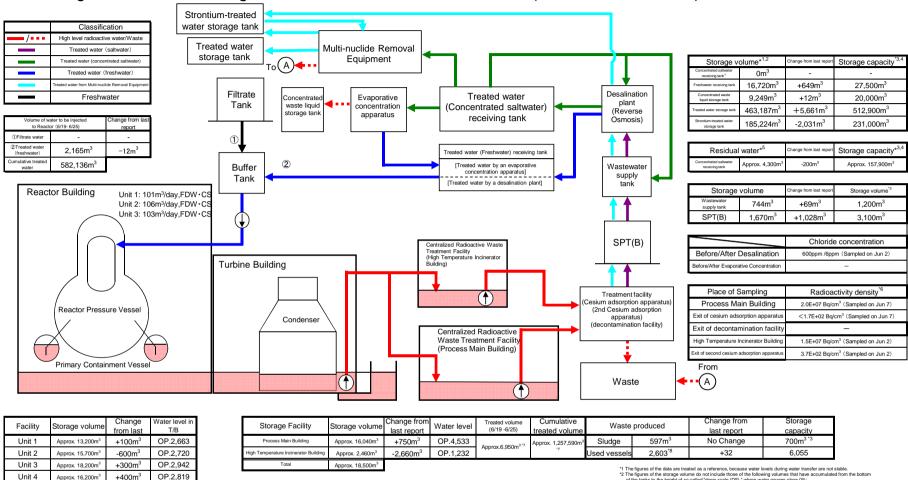
We forecast stored amounts in each unit building (Unit 1 to 4 (including condensers and trenches)), and storing and treatment situations in the Accumulated Water Storing Facilities for the next 3 months, as shown in Attachment -3.

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 June 25, 2015)



Main operations that have been conducted during the period from June 18, 2015 (the previous announcement data) to June 25, 2015]

On Jun 19, the facility to which water accumulated at Unit 2 had been transferred was changed from the High Temperature Incinerator Building to the Process Main Building, On Jun, 21, the facility to which water accumulated at Unit 2 had been transferred was changed from the Process Main Building to the High Temperature Incinerator Building, and since then the transfer

from Unit 2 to the High Temperature Incinerator Building has continued.

+400m3

Approx. 16,200m

Approx. 63,300m

Unit 4

Total

On Jun 19, water transfer from Unit 3 to the Process Main Building resumed, and on Jun 21, the transfer was suspended.

On Jun 19, the operation of the Cesium Adsorption Apparatus resumed. On Jun 23, the operation of the Cesium Adsorption Apparatus was suspended.

The operation of the Cesium Adsorption Apparatus and the 2nd Cesium Adsorption Apparatus has been conducted; the availability factor of the former has been 20.4% (previously assumed: 25%), and the availability factor of the latter 62.4% (previously assumed: 60%).

On Jun 18, 19 and 22-24, water transfer from the Condensate Storage Tanks at Unit 1 to the Radioactive Waste Treatment Facility at Unit 1 was conducted.

On Jun 18, water transfer from the Underground Storage Facility for Radioactive Waste at Unit 3 to the Radioactive Waste Treatment Facility at Unit 3 was conducted.

On Jun 20 and 21, water transfer from the Additioal Underground Storage Facility for Radioactive Waste at Unit 3 to the Radioactive Waste Treatment Facility at Unit 3 was conducted.

11 The figures of the data are treated as a reference, because water levels during water transfer are not stable.
22 The figures of the storage volume of ont include these of the following volumes that have accumulated from the bottom of the tanks to the height of so-called 'down scale (OS), 'where water gauges show (No. Freshwater receiving tank (approx. 1,000m²), Concentrated water (laud torange tank (approx. 1,00m²).

Freshwater receiving fank (approx. 1,000m²). Concentrated waste liquid storage tank (approx. 1,000m²).

Treated water storage tank (approx. 1,000m²). Storage tank (approx. 1,000m²).

To figures of the data show the operational limits.

*A The figures of Yoshigan capacity of not include these propagations of Yoshigan capacity and the storage school of the control of the volumes that have accumulated from the bottom of the stanks to "Assistance and the storage volume that accumulates up to the height of "DS."

*The figure of Yeshidula vater includes the one of the volumes that have accumulated from the bottom of the tanks to "the height of ac-called "down scale (DS)," where water gauges show 0% to the height of ac-called "down scale (DS)," where water gauges show 0% are storage volumes that have been seen to the height of ac-called "down scale (DS)."

**Total tanks of the scale of the propagation of the scale of the propagation apparatus (T/10m²)

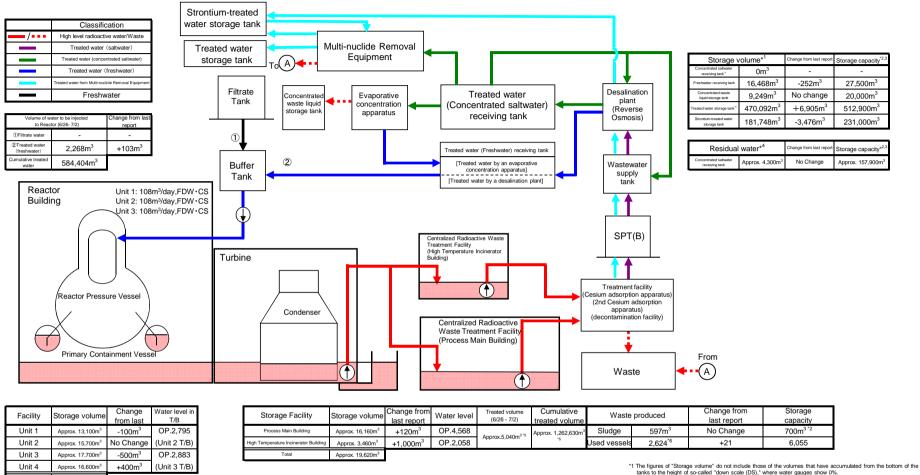
**Breakdown of the transition of the scale amount: Cealum adsorption apparatus (265,30m²)

**Breakdown of the used vessels: Cealum adsorption apparatus (263,30m²)

**Breakdown of the used vessels: Cealum adsorption apparatus (263,30m²)

*8 Breakdown of the used vessels:
Cesium adsorption apparatus (634)
2nd cesium Cesium adsorption apparatus (140)
Others: Storage container (1,610), Treated column (3) ,Used vessel (151), Filiters and so forth (65

Storage and treatment of high level radioactive accumulated water (as of July 2, 2015)



[Main operations that are planned to be conducted during the period from June 25, 2015 to July 2, 2015.]

Water transfer from Unit 2 to the High Temperature Incinerator Building will be suspended. Water transfer from Unit 2 to the High Temperature Incinerator Building will resume Suspension and resumption of the water transfer from Unit 2 to the High Temperature Incinerator Building will occur whenever necessary.

Water transfer from Unit 3 to the High Temperature Incinerator Building will resume. Water transfer from Unit 3 to the High Temperature Incinerator Building will be suspended Suspension and resumption of water transfer from Unit 3 to the High Temperature Incinerator Building will occur whene

The operation of Cesium Adsorption Apparatus will continue to be suspended.

Total

The operation of 2nd Cesium Adsorption Apparatus is scheduled (assumed Availability Factor 60%).

Water transfer from Unit 1 T/B to the Radioactive Waste Treatment Facility at Unit 1 will be conducted.

- *2 The figures of the data show the operational limits.
 *3 The figures of "Storage capacity" do not include those of the volumes that have accumulated from the bottom of the tanks to the height of so-called "down scale (DS)," where water gauges show 0%. However, each tank has the capacity that accomodates more than the storage volume that accumulates up to the height of "DS."
- *4 The figure of "Residual water" includes the one of the volumes that have accumulated from the bottom of the tanks to
- the height of so-called "down scale (DS)," where water gauges show 0%.

 *5 Total treated amount of Cesium adsorption apparatus and 2nd Cesium adsorption apparatus Breakdown of the treated amount: Cesium adsorption apparatus (0m³)
 2nd Cesium adsorption apparatus (5,040m³)

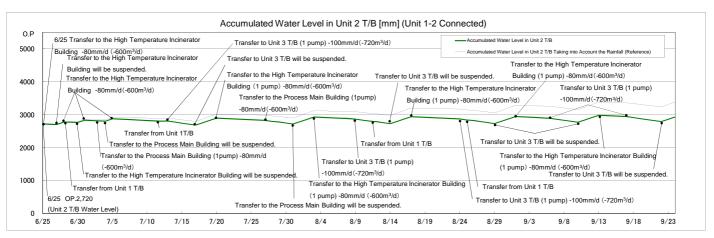
Breakdown of the cumulative treated amount: Cesium adsorption apparatus (288,350m³)

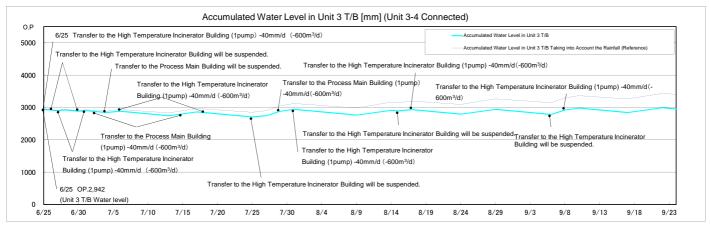
2nd Cesium adsorption apparatus (974,280m³)

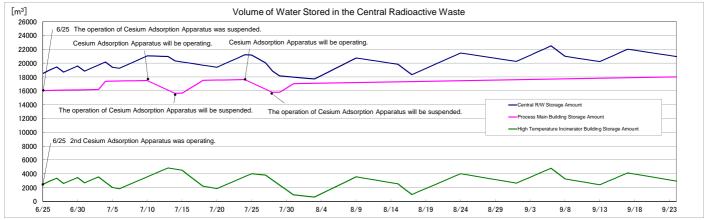
*5 Breakdown of the used vessels:

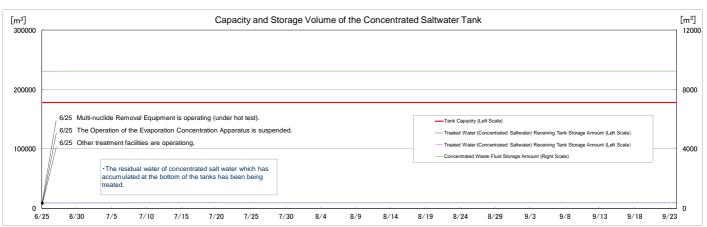
Cesium adsorption apparatus (634) 2nd cesium Cesium adsorption apparatus (140), Others: Storage container (1,628), Treated column (3) Used vessels (154) Filters and so forth (65)

Simulation Results of Accumulated Water Treatment in Unit 1-4 T/B









Note

- The amount of water treated by 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

^{-&}quot;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 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.