

Situation of Storage and Treatment of Accumulated Water containing Highly Concentrated Radioactive Materials at Fukushima Daiichi Nuclear Power Station (630th Release)

December 18, 2023

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 December 14, 2023 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 planed work, abnormality occurrence, etc., it shall be reported in a format containing a quantitative evaluation.

END

