

Overview of the IAEA Report on Its Review of  
Safety Related Aspects of Handling ALPS Treated Water  
at Fukushima Daiichi Nuclear Power Station  
(Third Review Mission after the Start of the Discharge)

Tokyo Electric Power Company Holdings, Inc.  
Fukushima Daiichi Decontamination and  
Decommissioning Engineering Company

- ✓ In order to make steady progress with the decommissioning of the Fukushima Daiichi Nuclear Power Station (FDNPS), TEPCO began the discharge of ALPS treated water into the sea from the FDNPS on August 24 in 2023.
  - ✓ Before the discharge of the ALPS treated water, **the series of reviews had been conducted by the International Atomic Energy Agency (IAEA)**, a specialized agency in the nuclear field. **On July 4 in 2023, the IAEA published "Comprehensive Report on the Safety Review of the ALPS-Treated Water at the Fukushima Daiichi Nuclear Power Station" as the conclusion of those reviews.**
  - ✓ In the comprehensive report, the IAEA stated, **"The IAEA is committed to engaging with Japan on the discharge of ALPS treated water not only before, but also during and after the treated water discharges occur."** and **"Additional review and monitoring activities are envisaged that will continue and which will provide additional transparency and reassurance to the international community by continuously providing for the application of the relevant international safety standards"**
  - ✓ **In December 2024, the IAEA Task Force visited Japan to conduct its third review mission after the start of the discharge. On March 24 in 2025, the IAEA published a report on the third review mission\*1.**
  - ✓ This leaflet provides an overview of the review mission and the report.
- \*1 The report is available on the IAEA website. The report can be accessed by scanning the 2D barcode on the right.  
<https://www.iaea.org/sites/default/files/third-alps-task-force-mission-report-after-the-start-of-the-discharge-200325.pdf>



the Link to the report

## Overview of the Review Mission

Schedule : From December 9 to 12 in 2024

- The IAEA's review has been conducted by the IAEA Task Force, which consists of the IAEA officials, including Director and Coordinator Gustavo CARUSO, and international experts<sup>+1</sup>.
- Based on the same technical items<sup>+2</sup> as in the previous review missions before and after the start of discharge<sup>+3</sup>, the Government of Japan and TEPCO discussed the effort after the start of the discharge and the radiological environmental impact assessment for one year after the commencement of discharge, with the IAEA Task Force.



IAEA Director and Coordinator  
Gustavo Caruso At Opening Session  
(December 9 in 2024, MOFA)



The IAEA Task Force at  
the measurement/confirmation facility  
(December 11 in 2024, FDNPS)



The IAEA Task Force at  
the dilution facility  
(December 11 in 2024, FDNPS)

<sup>+1</sup> Six IAEA officials and nine international experts have visited Japan.  
(from Argentina, United Kingdom, Canada, Republic of Korea, China, France, Vietnam, United States and Russia).

<sup>+2</sup> The major technical items are as follows

i . Regulatory Control and Authorization, ii . Safety Related Aspects of Systems and Processes for Controlling Discharges, iii . Characterization of the Source , iv . Radiological Environmental Impact Assessment, v . Source and Environmental Monitoring Programs, vi . Involvement of Interested Parties, vii . Occupational Radiation Protection

<sup>+3</sup> The details of the previous IAEA reviews before and after the start of the ALPS treated water discharge are available here  
[Safety review by the IAEA, Treated Water Portal Site (TEPCO)]

<https://www.tepcoco.jp/en/decommission/progress/watertreatment/safetycheck/index-e.html>



Safety review by the IAEA  
Treated Water Portal Site

## Key Points of the Report

- **The Task Force did not identify anything that is inconsistent with the requirements in the relevant international safety standards. Therefore, the IAEA can reaffirm the fundamental conclusions of its safety review as outlined in the Comprehensive Report dated July 4 in 2023.**
- **The Task Force confirmed that the equipment and facilities are installed and operated in a manner that is consistent with the Implementation Plan and the relevant international safety standards.**
- **The Task Force noted the importance of the IAEA's ongoing corroboration activities and the IAEA onsite independent testing and analyses, in providing a comprehensive, transparent and independent verification of the accuracy and reliability of the data reported by TEPCO and the Government of Japan.**

### Conclusions of the Comprehensive Report, (Published July in 2023)

- The approach to the discharge of ALPS treated water into the sea, and the associated activities by TEPCO, NRA and the Government of Japan, are consistent with relevant international safety standards.
- The discharge of the ALPS treated water, as currently planned by the TEPCO, will have a negligible radiological impact on people and the environment.



The comprehensive Report (Left), and the Links to the paper (right)

## Future activities of the IAEA

- The Task Force will continue to review the activities of TEPCO and NRA to assess whether they are consistent with the relevant international safety standards.
- The Task Force proposed that the next review mission taking place in the first half of 2025 would focus on the ALPS monitoring programme and its results.



Director General Rafael Grossi of the IAEA

### The Comment from Director General Grossi of the IAEA on publishing the comprehensive report (July in 2023)

We (the IAEA) are going to stay here (Fukushima) with you for decades to come ... until the last drop of the water has been safely discharged. The IAEA will review, inspect, and validate the plan's efficacy over the coming decades.

TEPCO will continue to receive reviews by the IAEA in light of international safety standards and take all possible measures to ensure safety while providing information on data related with the discharge of ALPS treated water and reviews based on scientific evidence to both domestically and internationally in a highly transparent manner.

## IAEA (International Atomic Energy Agency)

- The IAEA is an organization under the United Nations working for the safe and peaceful use of nuclear energy.
- Since its establishment in 1957, the IAEA has worked with 180 member states (as of November 2024) and related organizations to promote the peaceful use of nuclear energy and to prevent the military use of it.
- To protect human health and the environment from radiation, the IAEA has the authority to establish and adopt "Safety Standards" as recognized under the IAEA Statute of the United Nations.
- The IAEA Environment Laboratories which are staffed by experts in various fields, have been established to provide comprehensive knowledge on the environmental effects of radioactive materials and their protection.
- The IAEA also reviews the entire decommissioning program of the Fukushima Daiichi Nuclear Power Station.



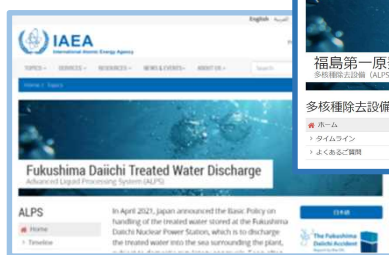
**IAEA**  
International Atomic Energy Agency



Observation of the ALPS by the IAEA  
Director General Rafael Grossi (May 2022)

### 【The IAEA official page related to the ALPS treated water】

Official page ↓



Japanese page ↑

### Example of the web topics

- Overview of the review mission
- Publication of the report of the review
- Explanation of structure and principles of the ALPS treated water discharge facility
- Monitoring methods of ALPS treated water by the IAEA etc.



← The IAEA official page

The IAEA official page in Japanese →



# TEPCO

〈This leaflet is also released in the following page〉



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Fukushima Daiichi Decontamination and Decommissioning Engineering Company  
Treated Water Portal Site

<https://www.tepco.co.jp/en/decommission/progress/watertreatment/index-e.html>