

Overview of the IAEA Comprehensive Report on the Safety Review of the ALPS Treated Water at Fukushima Daiichi Nuclear Power Station

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

The 1st edition October 2023

- ✓ TEPCO received missions of **the International Atomic Energy Agency (IAEA) for the review on the safety aspects of handling of ALPS treated water at the Fukushima Daiichi Nuclear Power Plant** in February and November 2022.
- ✓ In the review, **the IAEA assessed technical items regarding the radiological characteristics of ALPS treated water to be discharged, the safety of the discharge process, and the radiological impact on the public and the environment, in light of IAEA's international safety standards.** And the 1st and 2nd reports on the missions were published in April 2022 and 2023, respectively.
- ✓ From May 29 to June 2 2023, the IAEA Task Force visited Japan on a comprehensive mission to conclude the individual reviews. On July 4 2023, **“Comprehensive Report on the Safety Review of the ALPS Treated Water at Fukushima Daiichi Nuclear Power Station” has been published.** This leaflet provides an overview of the comprehensive review and the report.

Overview of the Comprehensive Review

The comprehensive review is a review to conclude (1) a review of the safety of ALPS treated water (February and November 2022), (2) a review of regulatory process and management (March 2022 and January 2023), and (3) an independent sampling data corroboration analysis, that were conducted to date, in preparation for issuance of a comprehensive report prior to the start of the discharge of ALPS treated water into the sea.

Schedule

From May 29 to June 2 in 2023

Members

The IAEA Task Force, composed of IAEA officials and international experts, visited Japan on a comprehensive mission.

(Reference)

The IAEA Task Force includes international experts, serving in a personal capacity, from Argentina, Australia, Canada, China, France, Republic of Korea, the Marshall Islands, Russia, the United States, the United Kingdom, and Vietnam.



Meeting and Site visit for the comprehensive Review ※1



Source : METI (News release on June 2, 2023)
Scene of the meeting



Dilution/discharge facility



K4 tank area

※1 Photos and movie of the site visit

Conclusions stated in the Executive Summary of the Comprehensive Report

- **The approach to the discharge ALPS treated water into the sea**, and 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 TEPCO, will have a **negligible radiological impact on people and the environment.**

Main items consistent with the international safety standards

EX. 1) Safety Related Aspects of Systems and Processes for Controlling Discharges

The systems and processes in place to control the discharges of ALPS treated water are robust and more than adequate for the expected low doses and the low risk arising from the discharge process.

EX. 2) Radiological Environmental Impact Assessment (REIA)

A REIA has been produced and is compliant with the international safety standards.

EX. 3) Source and Environmental Monitoring

TEPCO has demonstrated a high level of accuracy in their measurements and technical competence.

Future Activity of the IAEA

The IAEA stated that IAEA is committed to engage with Japan on the release of ALPS-treated water before, during and after release.

- ◆ Maintaining an onsite presence at FDNPS throughout its review
- ◆ Publishing available data for use by the global community, including the provision of real-time and near real-time monitoring data from FDNPS.
- ◆ Further reviews and monitoring provide additional transparency and reassurance to the international community.



The IAEA Director General Rafael Grossi

Director General Grossi said

"We are going to stay here 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 make absolutely sure that it guarantees safety while providing information of the content of reviews based on scientific evidence to parties both in Japan and overseas in a highly transparent manner.

IAEA (International Atomic Energy Agency)

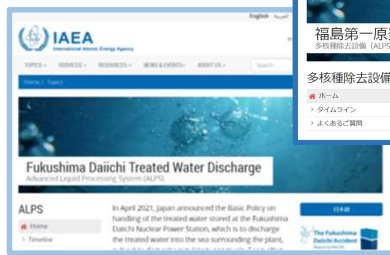
- The IAEA is an organization under the United Nations working for the safe and peaceful use of nuclear energy.
- Since its establishment in 1957, the IAEA has worked with 176 member states and related organizations to promote the peaceful use of nuclear energy and to prevent the military use of it.
- To protect human health and the environment from radiation, the IAEA has the authority under its Statute to establish and apply "Safety Standards".
- The IAEA Marine 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.



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 construction of the ALPS facility
- Monitoring methods of ALPS treated water by the IAEA etc.



← The IAEA official page



The IAEA official page in Japanese →



⟨This leaflet is also released in the following page⟩



Tokyo Electric Power Company Holdings, Inc.
 Fukushima Daiichi Decontamination and Decommissioning Engineering Company
 Treated Water Portal Site
<https://www.tepco.co.jp/en/decommission/progress/watertreatment/index-e.html>