Efforts and Progress for Decommissioning

Involvement of the IAEA in Discharge of "ALPS Treated Water"

- The IAEA conducts reviews as a third party in its professional capacity as an authoritative UN-related agency with specialized knowledge in the field of nuclear energy.
- On July 4th, 2023, the IAEA published its comprehensive report stating that discharges of the ALPS treated water to the sea are "consistent with relevant international safety standards" and "would have a negligible radiological impact on people and the environment."
- The IAEA will get involved in securing the safety of discharge of ALPS treated water over years even during and after discharge, not limited to reviews prior to discharge.

July 2021 February 2022 onward July 2023 Government of Japan and the IAEA signed · Publication of the IAEA Comprehensive Report Review missions to relevant the TOR (Terms of Reference) of the organizations (5 times in total · Establishment of the IAEA office at the Fukushima implementation of the safety reviews of the by June 2023) Daiichi NPS ALPS treated water Future involvement of the IAEA September 2021 onward April 2022 onward · Provide data on discharge to the international Holding of meetings of the IAEA Task Publication of reports (6 reports community on a real-time basis Force (12 times in total by June 2023) published by June 2023) . Continue additional reviews and monitoring to provide transparency and reassurance to the Outline of the reviews international community (i) Safety of ALPS treated water (responded by TEPCO and METI) Review missions on two occasions and two reports (Source) Prepared based on "Fukushima Daiichi ALPS Treated (ii) Appropriateness of regulatory process (responded by the Nuclear Regulation Water Discharge - Timeline of IAEA Safety Reviews for ALPS-Treated Water Discharge" (IAEA) Authority) https://www.isea.org/interactive/timeline/105298) and "IAEA Comprehensive Report: Confirmation by the International Organization of the Safety of Discharge of ALPS ⇒ Review missions on two occasions and two reports (iii) Independent sampling and analysis of supporting evidence (responded by TEPCO and relevant ministries and agencies) Treated Water into the Sea" (METI) ⇒ Two reports (https://www.meti.go.jp/earthquake/nuclear/hairo_osensui/shir

The government of Japan has asked the IAEA for support to review Japan's plans and activities for the discharge of ALPS treated water so that the treated water can be discharged in a safe and highly-transparent manner in compliance with the IAEA international safety standards. Accepting this request of the government of Japan, the IAEA will conduct technical reviews as to whether ALPS treated water is discharged in compliance with the IAEA international safety standards over the coming several decades. In order to sufficiently secure key elements regarding safety, the reviews consist of the following three major items.

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- 1. Intensively evaluate the property of ALPS treated water and discharge plans, especially focused on safety
- 2. Check responses of the Nuclear Regulation Authority, which is responsible for nuclear safety regulations
- 3. Corroborate the data published by the government of Japan by independently conducting monitoring of radioactive materials in ALPS treated water and the environment

From February 2022 to June 2023, the IAEA conducted multiple review missions and published reports for the purpose of publicizing the progress. Based on the observations by the Task Force, TEPCO revised the Implementation Plan and reports on the assessment of radiological impacts on humans and the environment to further improve the content thereof.

In July 2023, the IAEA published its comprehensive report, which concludes that discharges of the ALPS treated water into the sea are "consistent with relevant international safety standards" and "would have a negligible radiological impact on people and the environment" (p.21 of Vol. 2, "IAEA Comprehensive Report on the Safety of 'ALPS Treated Water"). This report states as follows.

- The IAEA will maintain an onsite presence at Fukushima Daiichi NPS throughout its review and will provide real-time and near real-time monitoring data on discharges to the international community.
- Additional review and monitoring activities will be continued to provide additional transparency and reassurance to the international community.
 The report presents the IAEA's commitment to engaging with Japan on the discharge of ALPS treated water not only before, but also during, and after the treated water discharges occur, aiming to secure the safety of discharge over years.

The IAEA's reports are published on the following website:

IAEA Fukushima Daiichi ALPS Treated Water Discharge - Reports

https://www.iaea.org/topics/response/fukushima-daiichi-nuclear-accident/fukushima-daiichi-alps-treated-water-discharge/reports

(Source)

Prepared based on

- "The IAEA confirmed the safety of discharge of ALPS treated water into the sea" (July 2023) https://www.meti.go.jp/earthquake/nuclear/hairo_osensui/shirou_alps/reports/02/ (in Japanese)
- "The IAEA Published a Report on Its February Review Mission of Safety Aspects of Handling of ALPS Treated Water at Fukushima Daiichi Nuclear Power Station" (April 2022)

https://www.meti.go.jp/english/press/2022/0429_001.html