Fukushima Daiichi Nuclear Power Station Seventh discharge in FY2025
Commencement of the First Stage of the Discharge of ALPS Treated Water into the Sea
(Discharge in two-stage)

＜Reference document＞
March 4, 2026
Tokyo Electric Power Company Holdings, Inc.
Fukushima Daiichi Decontamination & Decommissioning Engineering Company

- In preparation for the seventh discharge in FY2025, we have confirmed that the analysis results for group B of the measurement/confirmation facility, sampled on November 20, 2025, meet the national discharge criteria, based on results that include analyses taken by the external agency.
- Total tritium discharge volume in ALPS treated water is approximately 2.0 T Bq and tritium concentration after dilution is approximately 338 Bq/liter, which is well below the regulatory concentration limit (60,000 Bq/liter), WHO standard for drinking water quality guidelines (10,000 Bq/liter), and value stipulated in the government policy (1,500 Bq/liter).
- Since the fourth discharge of FY2023, it has been decided to implement discharge in two-stage only once a year for the time being, and as such, the seventh discharge of FY2025 will be conducted in two-stage.

< Announced by March 2, 2026 >

- Today (March 4, 2026) at 11:40 a.m., we commenced the First stage of the seventh discharge of FY2025 of ALPS treated water into the sea (discharge in two-stage). A small amount (approximately 0.9m^3) of ALPS treated water was diluted with seawater (approximately 1,200m^3), which was temporarily held in the discharge vertical shaft (upper-stream storage) and then sampled.
- In the future, we will confirm that tritium concentrations in the water created by diluting the ALPS treated water in the upper-stream storage with seawater shows no significant differences between the calculated estimates and actual measurements, remains less than 700 Bq/liter*, and that the ALPS treated water dilution/discharge facility verifies that its performance had no problems.
- After confirming the results of the first stage, we plan to commence the continuous discharge into the sea from measurement/confirmation tank group B (second stage) on or after March 6, 2026. (planned total amount of water to be discharged: approx. 7,800m^3)
- Going forward, we will remain vigilant to ensure the safe and stable discharge of ALPS treated water.

※Value determined so that the upper operational limit of 1,500 Bq/liter is not exceeded in consideration of analysis uncertainty and instrument discrepancies

[Reference] Procedure of discharge in two-stage

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■ Procedure of discharge in two-stage is as follows:

First Stage・・・ General performance confirmation of components (no discharge into the sea)

① Upper-stream storage emptied
② ALPS treated water (measurement/confirmation tank) tritium concentration entered into system
③ One seawater transfer pump started up
④ ALPS treated water transfer pump started up after the seawater transfer pump reaches rated flow
⑤ ALPS treated water transfer flow automatically adjusted in accordance with tritium concentration so that the ALPS treated water diluted by seawater concentration is 700 Bq/liter※
⑥ After rated flow has been reached, the ALPS treated water transfer pump and the seawater transfer pump will be shutdown
⑦ Operate the ALPS treated water dilution/discharge facility to verify that its performance had no problems.
The concentration of tritium in the water diluted by seawater in upper-stream storage shall also be measured to confirm that through calculated estimates and actual measurements that there had been no significant difference in the concentration of tritium and less than 700Bq/liter.

※Value determined so that the upper operational limit of 1,500Bq/liter is not exceeded in consideration of analysis uncertainty and instrument discrepancies

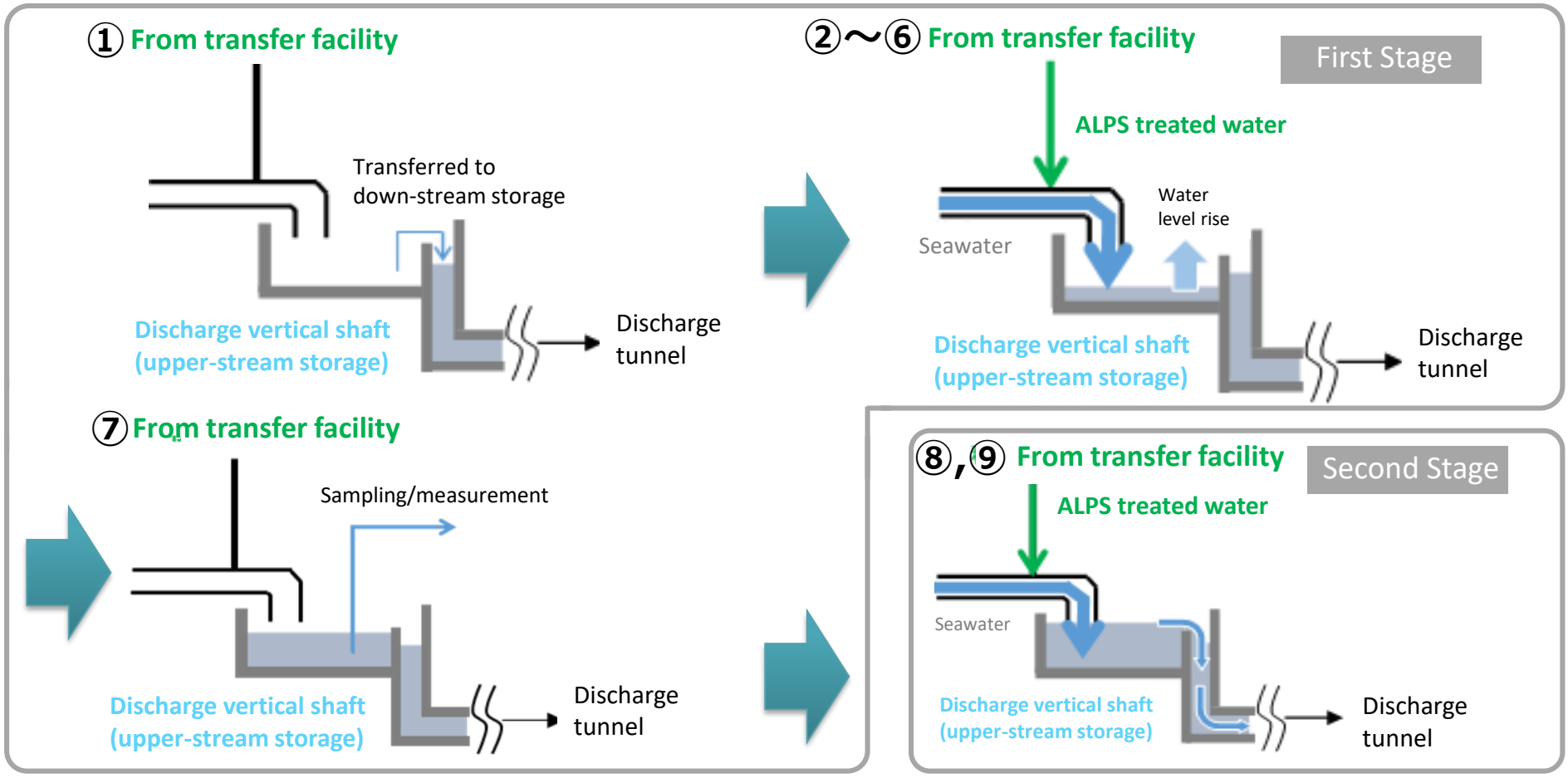
Second Stage・・・ Continuous discharge into the sea

⑧ Two seawater pumps started up in succession (commencement of discharge of diluted water from upper-stream storage)
⑨ After the two seawater pumps have reached rated flow the ALPS treated water transfer pump shall be started up (continuous discharge)

(“the post-dilution tritium concentration” during continuous discharge shall be managed using calculated values and analysis values from water sampled daily from downstream of the seawater flow header)

[Reference] Method of discharge in two-stage

TEPCO



① The discharge vertical shift (upper-stream storage) emptied

②～⑥ A small amount (approximately 0.9m³) of ALPS treated water will be diluted with seawater (approximately 1,200m³) and then held in the upper-stream storage).

⑦ Operate the ALPS treated water dilution/discharge facility to verify that its performance had no problems.
The concentration of tritium in the water diluted by seawater in upper-stream storage shall also be measured to confirm that through calculated estimates and actual measurements that there had been no significant difference in the concentration of tritium and less than 700Bq/liter. [Processes ① through ⑦ comprise the First Stage] .

⑧, ⑨ Then, TEPCO will move on to the Second Stage which will be continuous discharge into the sea.