

Fukushima Daiichi Nuclear Power Station

Commencement of preparations for the initial discharge of ALPS-treated water (First Stage)

< Reference document >
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Fukushima Daiichi Decontamination &
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- At the sixth meeting of the Inter-Ministerial Council concerning the Continuous Implementation of the Basic Policy on Handling of ALPS-Treated Water held yesterday (August 22), the Japanese Government announced that it had made a decision in regards to the commencement period of the discharge of ALPS treated water into the sea and asked that TEPCO begin preparations for the commencement of discharge.
- TEPCO will quickly move forward with preparations to commence discharge with the utmost vigilance in accordance with the implementation plan, and as the First Stage of the initial discharge of ALPS treated water, a very small amount of ALPS treated water (Approximately 1m³) was transferred to the dilution facility using the transfer facilities beginning at 19:33, diluted with seawater (Approximately 1,200m³), and allowed to flow into the discharge vertical shaft (upper-stream storage). The water stored in the discharge vertical shaft (upper-stream storage) was also sampled.
- Going forward, the tritium concentration in the sampled water will be measured in order to confirm that the actual concentration is approximately the same as the calculated concentration, and less than 1,500Bq/liter.
- As soon as this confirmation process has concluded, we will move on to the Second Stage, by which one group tank-worth of ALPS treated water from the measurement/confirmation facility, and the water temporarily stored in the discharge vertical shaft (upper-stream storage) during the First Stage, will be continuously transferred/diluted and discharged into the sea after August 24.

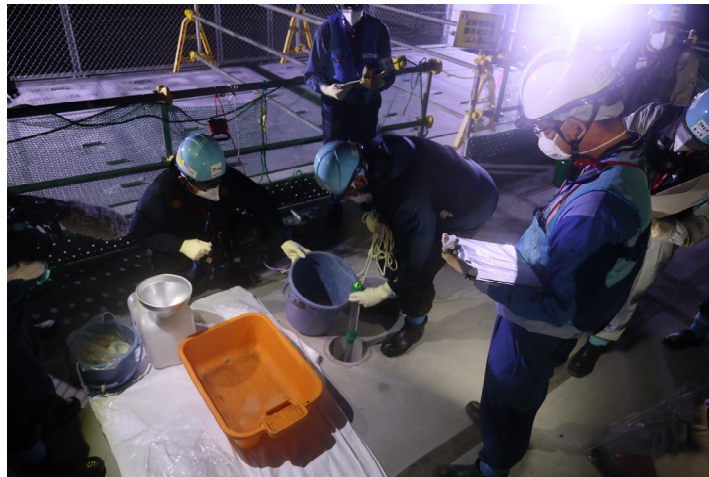
[Reference] Photos from the First Stage



Operations by TEPCO operators



Key switch operations during the First Stage

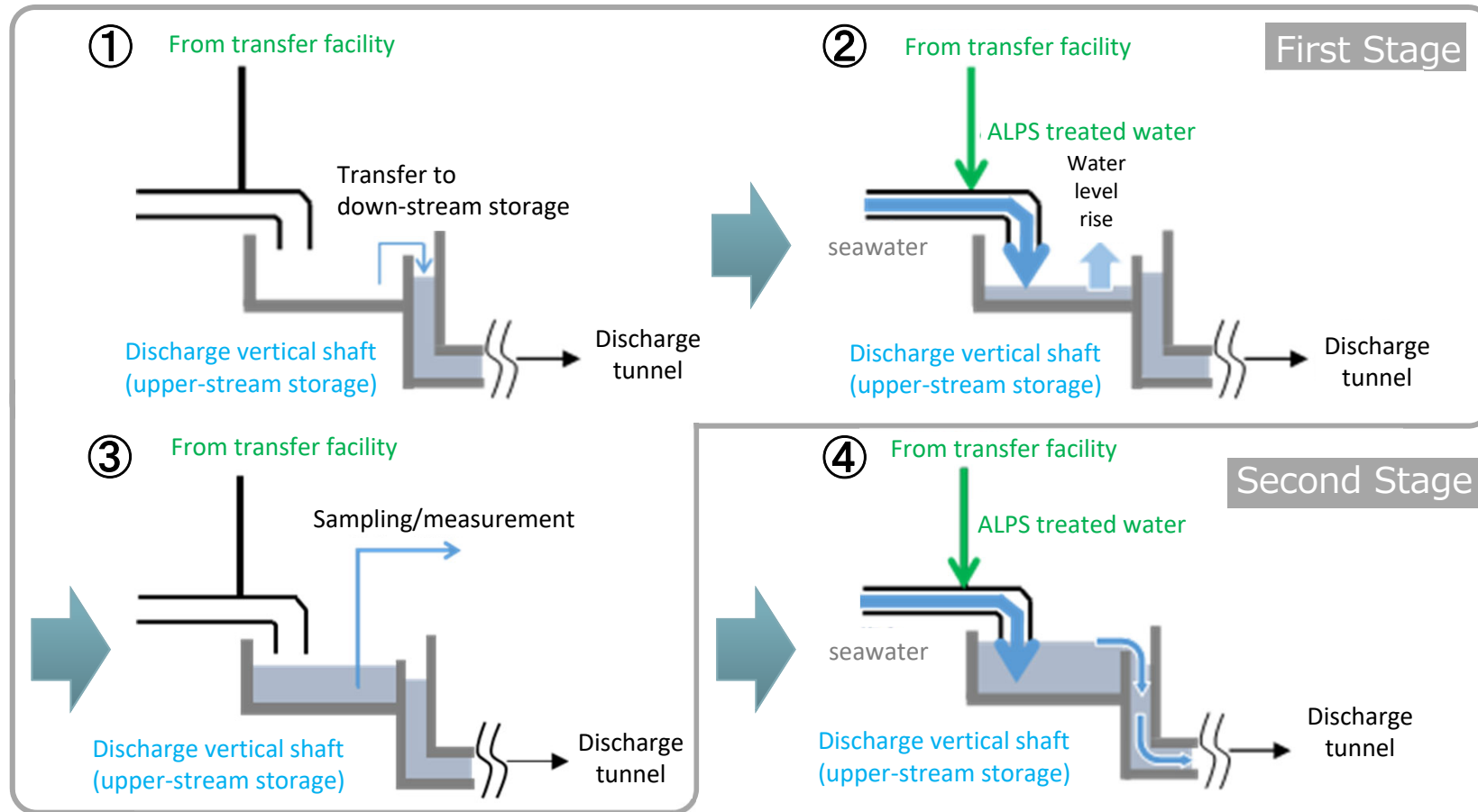


First sampling from the upper-stream storage



Sampling bottles (after sampling)

[Reference] Method of initially discharging small amounts



- ① The discharge vertical shaft (upper-stream storage) will be emptied. (Upper-stream storage has been emptied as of today)
- ② A very small amount of (approximately 1m^3) ALPS treated water will be diluted with seawater (approximately $1,200\text{m}^3$) and then held in the discharge vertical shaft (upper-stream storage).
- ③ The water in the discharge vertical shaft (upper-stream storage) will be sampled and the tritium concentration will be measured in order to confirm that actual concentration is approximately the same as the calculated tritium concentration, and that the concentration of tritium is less than $1,500\text{Bq/liter}$. [Processes ① through ③ comprise the First Stage]
- ④ Then, TEPCO will move on to the Second Stage which will be continuous discharge into the sea.