

Fukushima nuclear plant operator says equipment to release treated wastewater into sea is complete

June 26 2023, by Mari Yamaguchi



A work ship is seen off shore where Tokyo Electric Power Company Holdings said it installed the last piece of an undersea tunnel dug to be used to release the water offshore, during a media tour to the Fukushima Daiichi nuclear power plant in Fukushima, northern Japan Monday, June 26, 2023. All equipment needed for the release into the sea of treated radioactive wastewater from the wrecked Fukushima nuclear plant has been completed and will be ready for a

safety inspection by Japanese regulators this week, the plant operator said Monday, as opposition to the plan continues in and outside Japan over safety concerns. Credit: Kyodo News via AP

All equipment needed for the release into the sea of treated radioactive wastewater from the wrecked Fukushima nuclear plant has been completed and will be ready for a safety inspection by Japanese regulators this week, the plant operator said Monday, as opposition to the plan continues in and outside Japan over safety concerns.

Tokyo Electric Power Company Holdings said it installed the last piece of an undersea tunnel dug to release the [water](#) offshore, completing the construction of the necessary equipment that began last August.

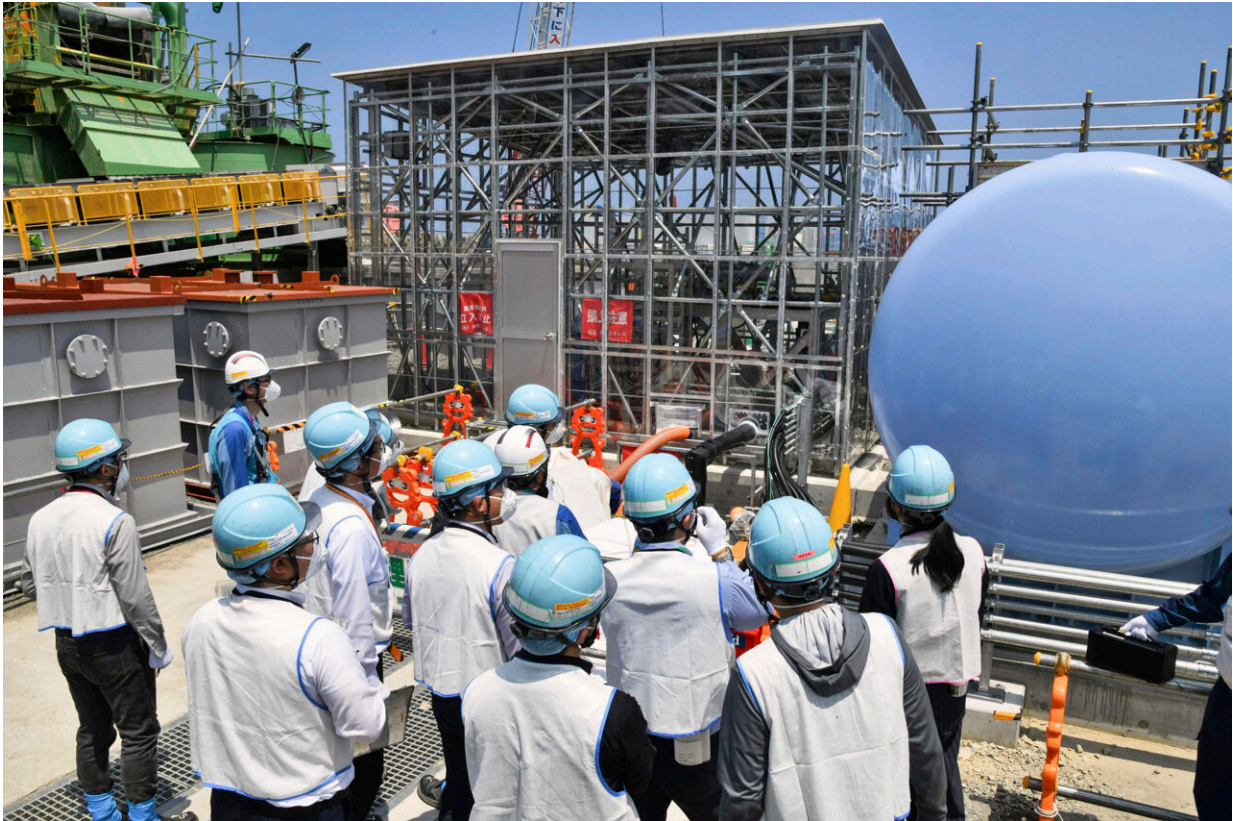
A mandatory safety inspection of the equipment will begin Wednesday, said Nuclear Regulation Authority Chairman Shinichi Yamanaka, who visited the Fukushima Daiichi plant last week.

If everything goes well, TEPCO is expected to receive a safety permit for the release about a week after the inspection ends, officials said. Discharge of the treated water is expected to begin this summer, although the exact date has not been set.

The plan has faced fierce protests from local fishing groups concerned about safety and reputational damage. Nearby countries, including South Korea, China and some Pacific Island nations, have also raised safety concerns.

Government and utility officials say the wastewater, currently stored in about a thousand tanks at the plant, must be removed to prevent any accidental leak in case of an earthquake and to make room for the plant's

decommissioning. They say the treated but still slightly radioactive water will be diluted to safe levels and will be released gradually into the ocean over decades, making it harmless to people and marine life.



An equipment to be used to dilute the water with seawater is shown to media at the Fukushima Daiichi nuclear power plant in Fukushima, northern Japan, Monday, June 26, 2023. All equipment needed for the release into the sea of treated radioactive wastewater from the wrecked Fukushima nuclear plant has been completed and will be ready for a safety inspection by Japanese regulators this week, the plant operator Tokyo Electric Power Company Holdings said Monday, as opposition to the plan continues in and outside Japan over safety concerns. Credit: Kyodo News via AP



An employee of Tokyo Electric Power Company explains about the facility to be used to release treated radioactive water to media at Fukushima Daiichi nuclear power plant in Fukushima, northern Japan, Monday, June 26, 2023. All equipment needed for the release into the sea of treated radioactive wastewater from the wrecked Fukushima nuclear plant has been completed and will be ready for a safety inspection by Japanese regulators this week, the plant operator said Monday, as opposition to the plan continues in and outside Japan over safety concerns. Credit: Kyodo News via AP

Some scientists say the impact of long-term, low-dose exposure to radionuclides is unknown and the release should be delayed. Others say the release plan is safe but call for more transparency, including allowing outside scientists to join in sampling and monitoring the release.

Japan has sought support from the International Atomic Energy Agency to gain credibility and ensure that [safety measures](#) meet international standards.

A [massive earthquake](#) and tsunami on March 11, 2011, destroyed the Fukushima Daiichi [nuclear plant](#)'s cooling systems, causing three reactors to melt and their cooling water to be contaminated and leak continuously. The water is collected, treated and stored in the tanks, which will reach their capacity in early 2024.

© 2023 The Associated Press. All rights reserved. This material may not be published, broadcast, rewritten or redistributed without permission.

Citation: Fukushima nuclear plant operator says equipment to release treated wastewater into sea is complete (2023, June 26) retrieved 2 May 2024 from <https://techxplore.com/news/2023-06-fukushima-nuclear-equipment-wastewater-sea.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.