

T=PCO

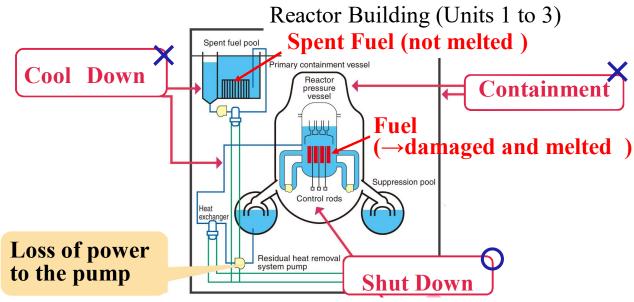
Coronavirus Countermeasures at Fukushima Daiichi







Accident at Units 1 to 4 after tsunami in March 2011









March 11, 2011

Occurrence of the Great East Japan Earthquake

June 2013

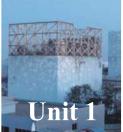
PPE wearing place set up at Fukushima Daiichi

May 2015

Completion of the large rest center



Hydrogen explosion at Units 1, 3 and 4







December 2014

Completion of fuel removal at Unit 4



May 2015

Treatment of highly contaminated water in tanks substantively completed



Major milestones after the accident (2)



October 2016

Completion of administrative building



May 2018

G-zone expanded to 96% of the premises

April 2019

Start of Unit 3 fuel removal



<since FY2020>

Project-oriented approach

based on

"Mid-and-Long-

Term

Decommissioning Action plan"

October 2015

Completion of sea-side impermeable wall



March 2018

Frozen soil wall (Ice Wall) completed in most of the areas



February 2019

Touching investigation of deposits in Unit 2 PCV





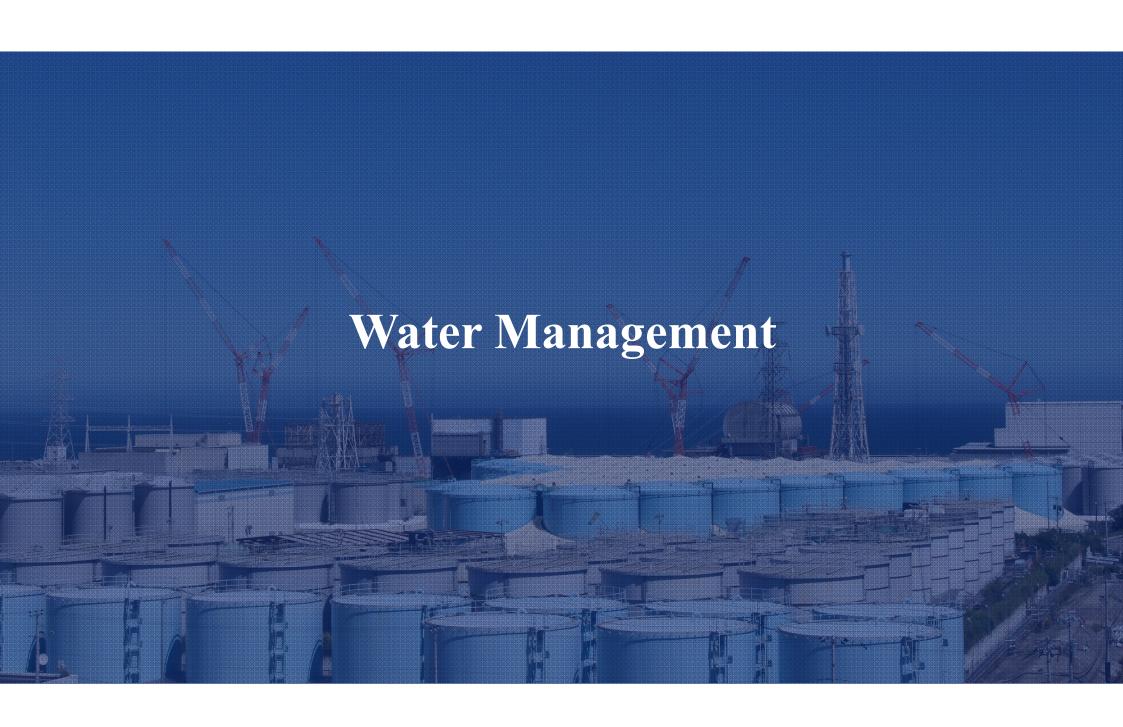
March 2019

Regarding treated water storage, transition to reliable welded tanks completed





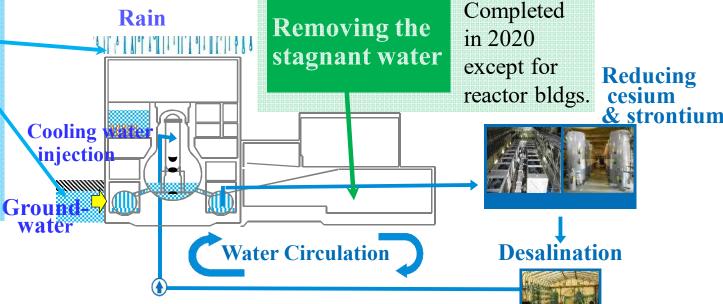




Major issues surrounding water stored at Fukushima Daiichi

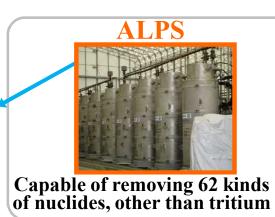
Redirect fresh water from contaminated areas

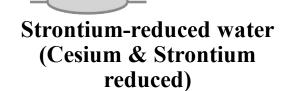
Contaminated water generation decreased to less than 150m³/day in 2020 from about 500 m³/day in 2014



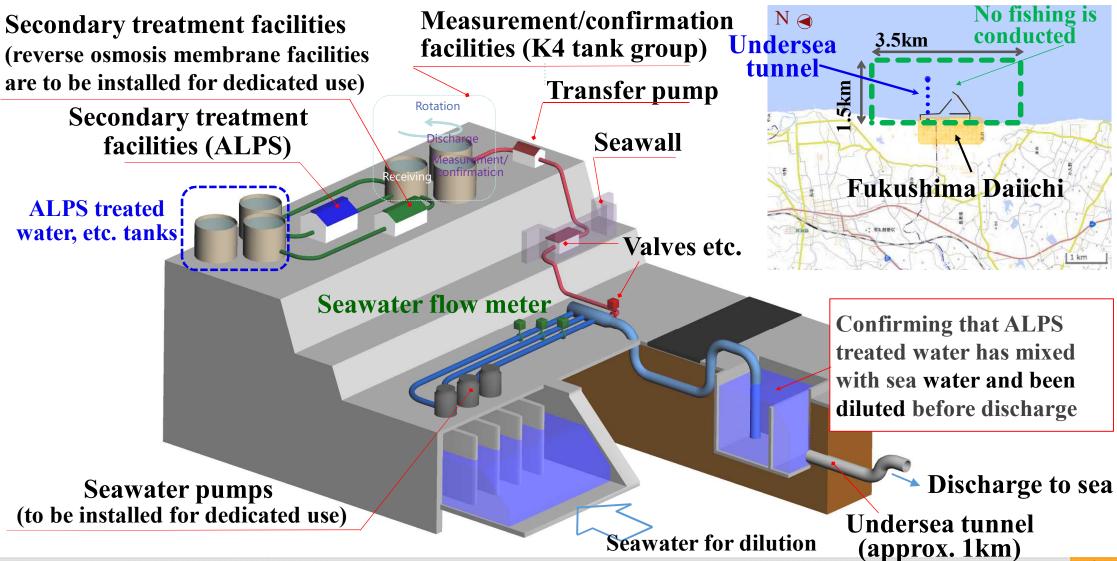
Storage of ALPS-treated water: preparations for discharge into the sea underway







Design and operations for ALPS treated water discharge (blueprint)

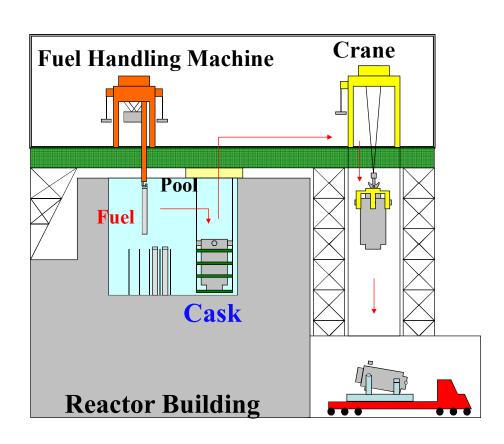


Fuel Removal from Spent Fuel Pools



What is spent fuel removal?

After loading onto the fuel transfer cask, spent fuel is transported to the on-site common pool and stored in the fuel rack.



Common pool



Site transfer



Store in fuel rack

Completion of fuel removal at Unit 3 (Feb. 28, 2021)

- Since the upper part of the building was highly radioactive, most work including rubble removal and fuel removal was carried out via remote operation.
- Lessons and knowledge obtained from the work will be used in the removal at Units 1 & 2 and other projects.

Rubble removal & Decontamination (from 2012 to 2016)

- Removal of rubble on the refueling floor
- ·Removal of rubble in the spent fuel pool
- Decontamination on the refueling floor
- Shielding on the refueling floor

Installation of fuel removal equipment (from 2017 to 2018)

- •Fuel handling machine
- Dome cover

Fuel removal (from 2019 to 2021)

Storage/ Transfer







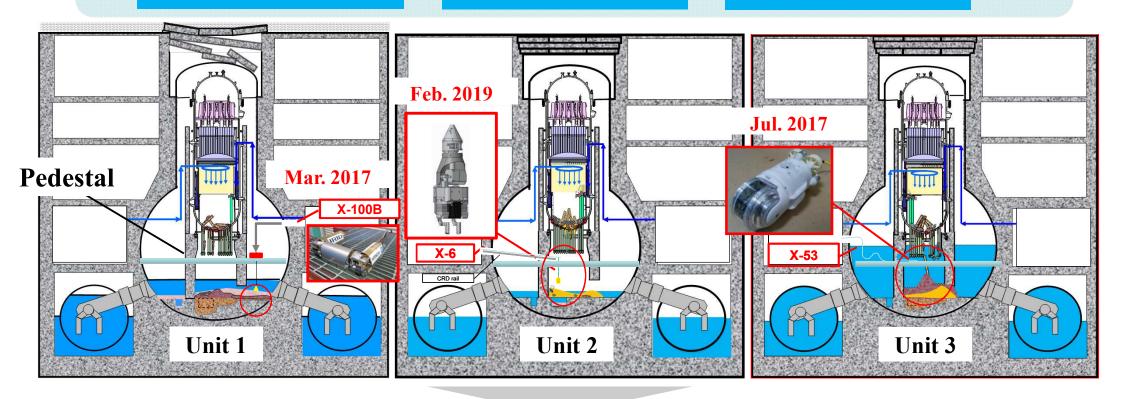


Assumed distribution of fuel debris

Robotic exploration

Analysis of accident transient

Muon Survey

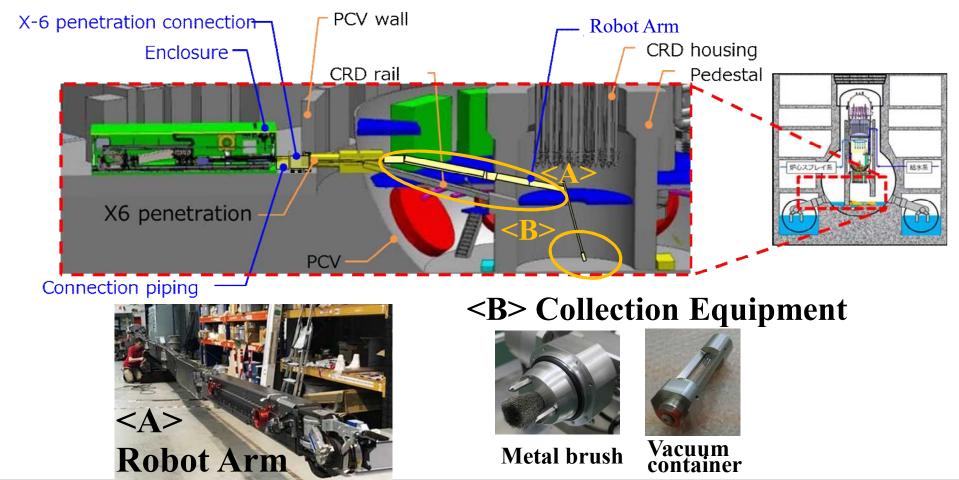


Trial retrieval to start at Unit 2 in 2022



Equipment to be used for fuel debris retrieval at Unit 2

- ■The first trial retrieval to be rescheduled for FY2022 due to the coronavirus in the U.K.
- Stepwise expansion of the retrieval scale to follow after the first trial.





The equipment's arrival in Japan

at Kansai International Airport (Jul. 10)





at a factory in Kobe (Jul. 12)

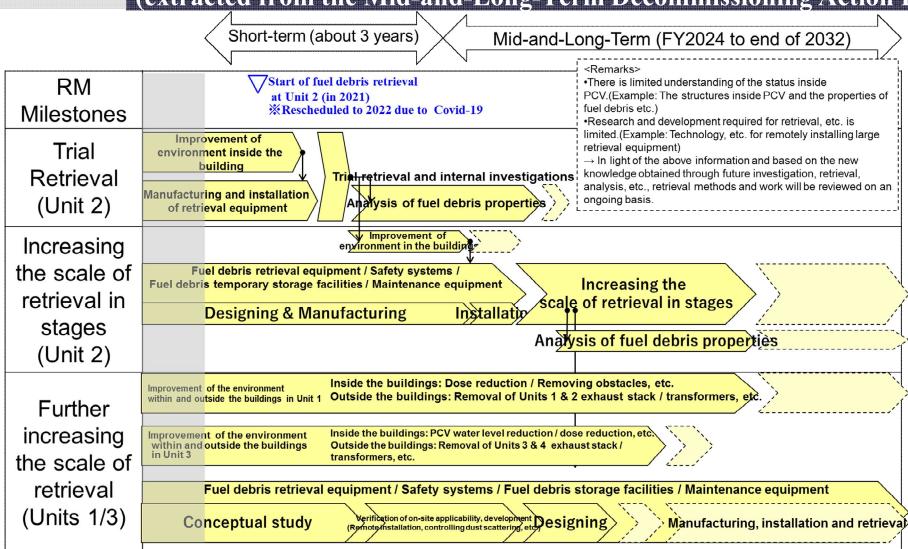








Future scenario for fuel debris retrieval until 2032 (extracted from the Mid-and-Long-Term Decommissioning Action Plan)





Initiative to involve local firms in the decommissioning activities

- A firm based in Fukushima accomplished dismantlement of the exhaustive stack for Units 1 & 2.
- We held briefing sessions for local businesses as well as meetings between local firms and TEPCO's contractors.

Dismantlement of the exhaustive stack for Units 1 & 2 (by a local firm)





Briefing on TEPCO's procurement plans for local firms



Meeting between contractors and local firms



T=PCO

Creation of new local business – a new factory plan for Fukushima Revitalization

- TEPCO is to set up and operate a factory in coastal areas in Fukushima to manufacture decommissioning-related products which have thus far been produced in other parts of Japan.
- Joint venture to be launched between TEPCO and manufactures which have a track record in the nuclear industry.
- Involvement of the local people is being considered.

TEPCO HD Order placement Fukushima Daiichi Nuclear Power Station Fukushima Daini Nuclear Power Station Other businesses

A new factory for decommissioning-related products

- Employment
- Collaboration
- Order placement
- > TEPCO to set up a joint venture with a partner company
 - Arranging equipment and staff needed to manufacture the products
 - Constructing and operating the factory
- ➤ Benefit the local community in terms of HR development and economic revitalization

