Fukushima Daiichi Nuclear Power Station Units 1 and 2
Progress of Fuel Removal from Spent Fuel Pools

January 29, 2026

Tokyo Electric Power Company Holdings, Inc.

TEPCO

1. Fuel removal from the spent fuel pool plan overview

- The 392 fuel assemblies* are being stored in the Unit 1 spent fuel pool will be removed in order to relocate them to the common pool where they can be cooled and stored in a more stable manner.

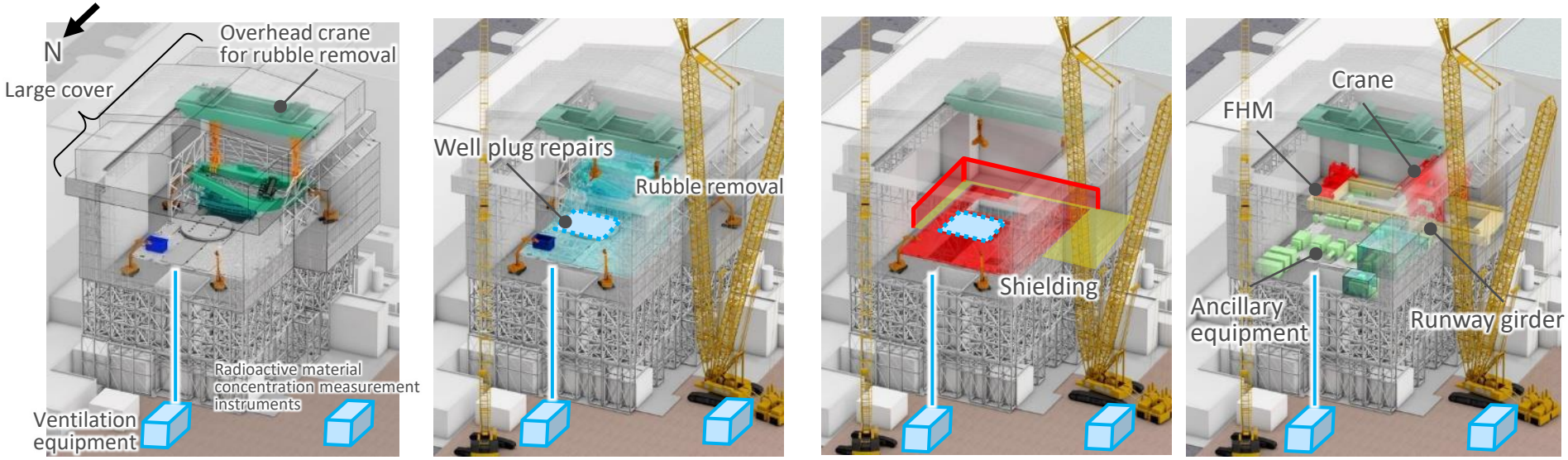
* 292 spent fuel assemblies and 100 fresh fuel assemblies

- Prior to fuel removal, a large cover that encompasses the entire reactor building is built, rubble removed from under the large cover, the operating floor decontaminated/shielded, and fuel handling equipment (fuel handling machine (FHM) and crane) installed.

Large cover installation completed
(January 19, 2026)

Commencement of fuel removal
(FY2027-2028)

STEP1	STEP2	STEP3	STEP4	STEP5
Install large cover	Rubble removal, etc.	Decontamination/shielding	Fuel handling equipment installation	Fuel removal

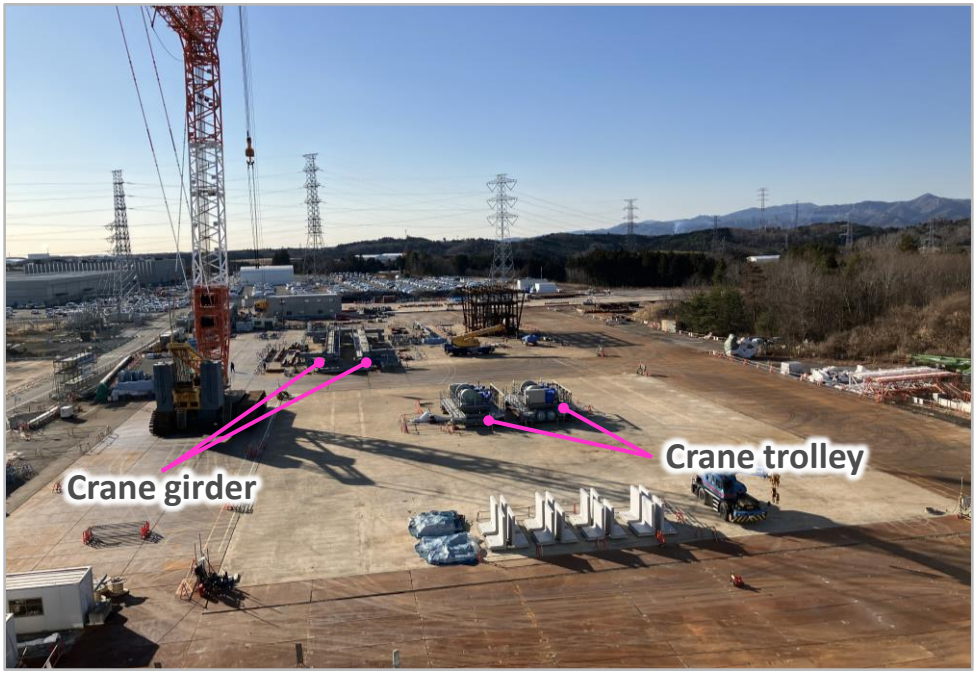


※These are just concept diagrams and actual location may differ.

2-1. Large cover installation status (off-site)

- Pre-assembly in the off-site west gate yard has been completed, and preparations are underway to move the overhead crane to be used for rubble removal.

Temporary work platform (Completed) → Bottom framework (Completed) → Upper framework (Completed) → Box ring (Completed) → Retractable roof (Completed) → Overhead crane for rubble removal (Completed)



Off-site west gate yard (Photographed on January 13, 2026)

The rubble removal overhead crane loaded onto the super carrier

(Photographed on January 19, 2026)

2-2. Large cover installation status (on-site)

- Transport and installation of retractable roof (block 6/6) was completed on January 13, 2026.
- A function check of the retractable roof was performed on January 19,2026, thereby marking completion of large cover installation.
- Transport and installation of the components for the overhead crane to be used for rubble removal (block 2/4) was completed on January 22, 2026.

Temporary work platform (Completed) → Anchor hole drilling (Completed) → Baseplate installation (Completed) → Bottom framework (Completed) → Upper framework (Completed) → Box ring (Completed) → Retractable roof (Completed) → **Now** Overhead crane for rubble removal (50%)

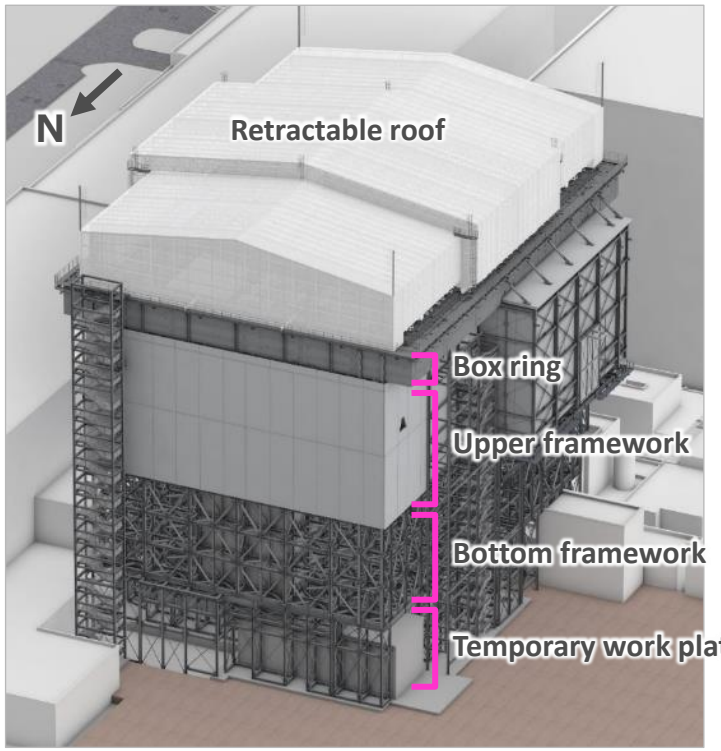
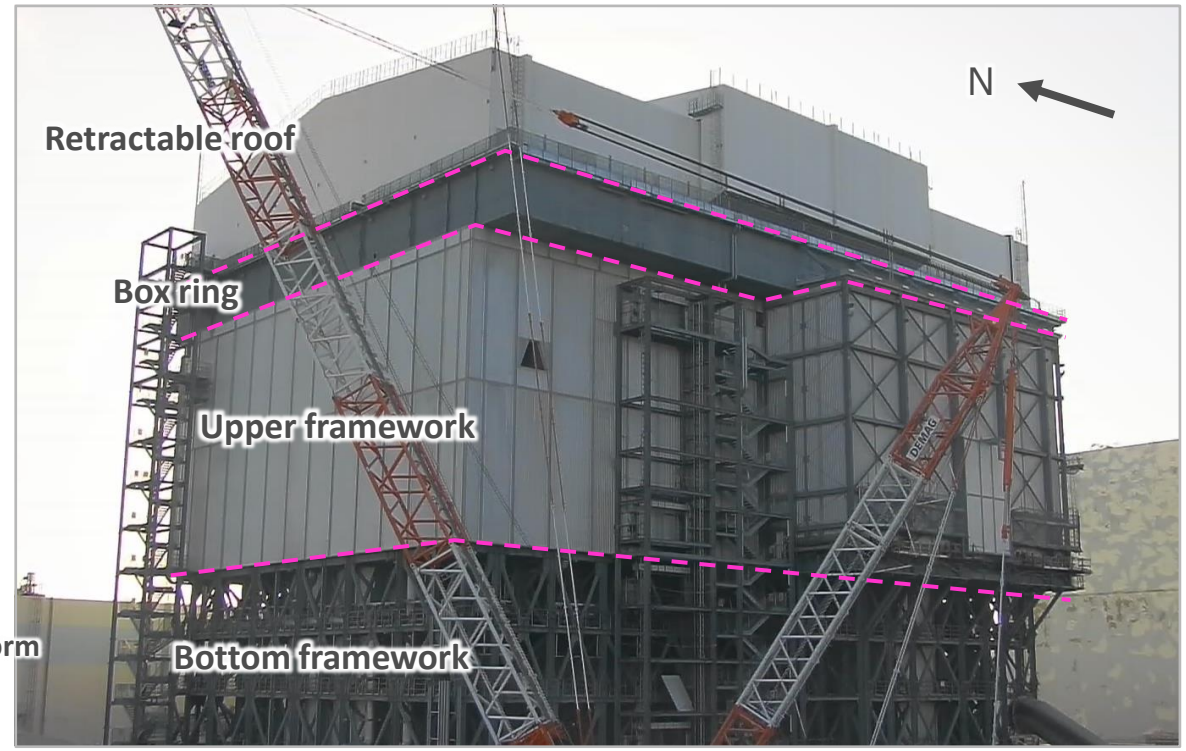


Diagram of the entire large cover



On-site conditions (Photographed on January 16, 2026)

3. Overhead crane for rubble removal installation

- A rubble removal overhead crane (overhead crane) will be installed after installation of the retractable roof.
- The overhead crane is comprised of four components; two crane girder blocks and two crane trolley blocks. Each of these blocks will be transported and installed separately.
- After installation and test operation/adjustments, a final inspection will be performed around the middle of February.

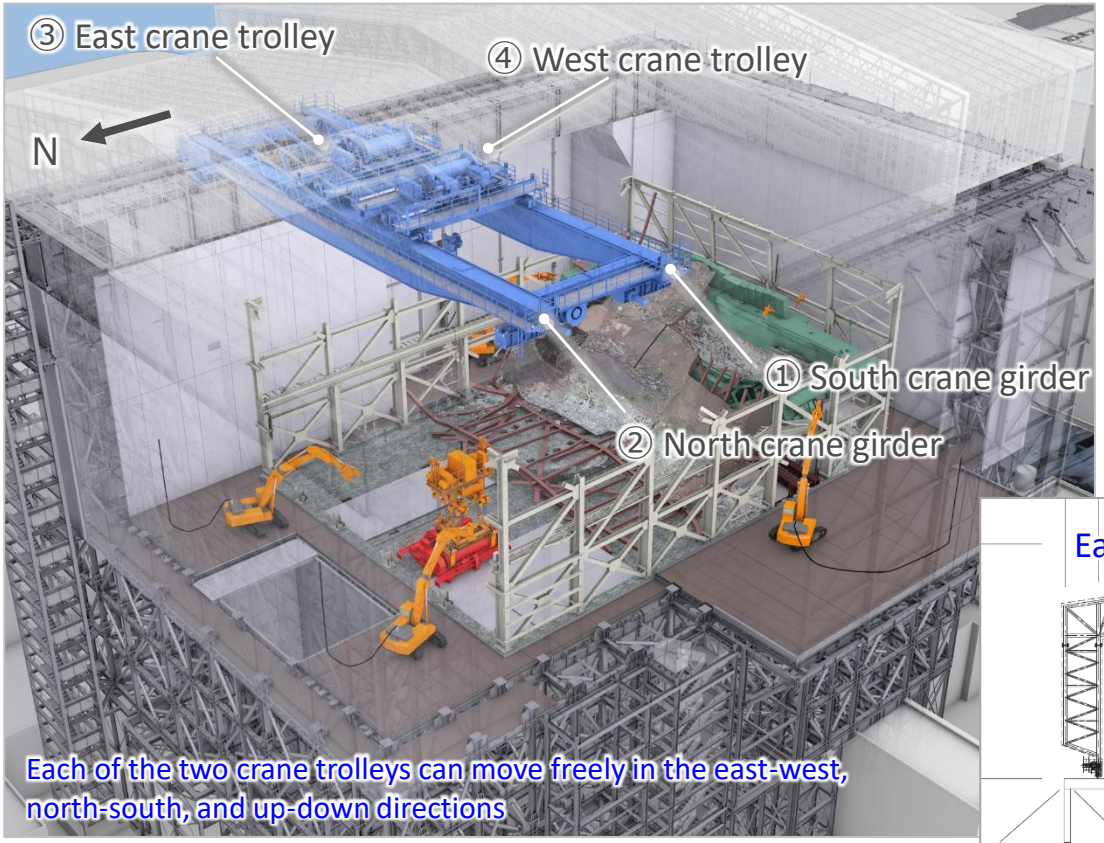
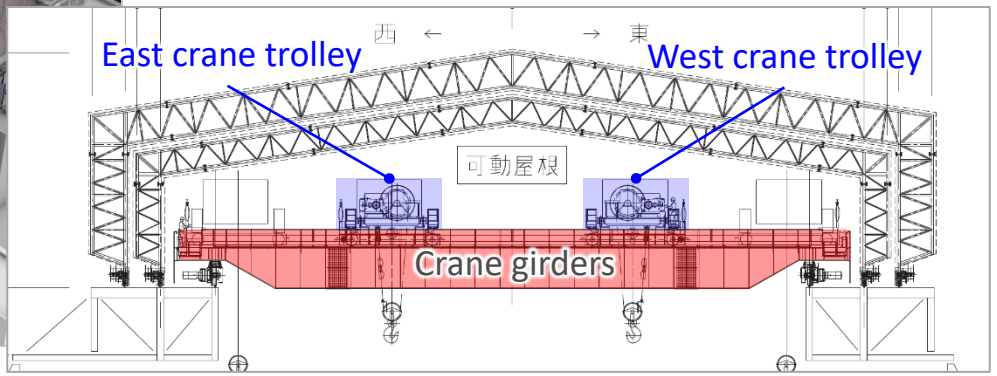


Image diagram of after installation of the rubble removal overhead crane

※ May differ from actual conditions

Overhead crane installation schedule

	Planned date of transport and installation
① South crane girder	January 20 (completed)
② North crane girder	January 22 (completed)
③ East crane trolley	January 29
④ West crane trolley	January 30



Elevation drawing of the rubble removal overhead crane

4. The regular reporting of continuous dust monitor measurements and regular spraying of anti-scattering agents

- Installation of the Unit 1 large cover was completed on January 19, 2026, and the operating floor was now covered ※, greatly reducing the risk of dust contaminated with radioactive substances being discharged into the environment. Therefore, reporting of continuous dust monitor measurements from the Unit 1 reactor building operating floor at the meetings of the Secretariat of the Team for Countermeasures for Decommissioning and Contaminated Water Treatment will end in January 2026. However, dust monitor measurements will continue, and the measurement results will continue to be publicly disclosed on the TEPCO website going forward (Refer to <Reference 1> for disclosure locations).
- As mentioned above, because the risk of radioactive material discharge has been greatly reduced, the regular spraying of dispersion prevention agents will also end in January 2026. Going forward, dispersion prevention agents will be sprayed as needed during rubble removal work based on work plans.

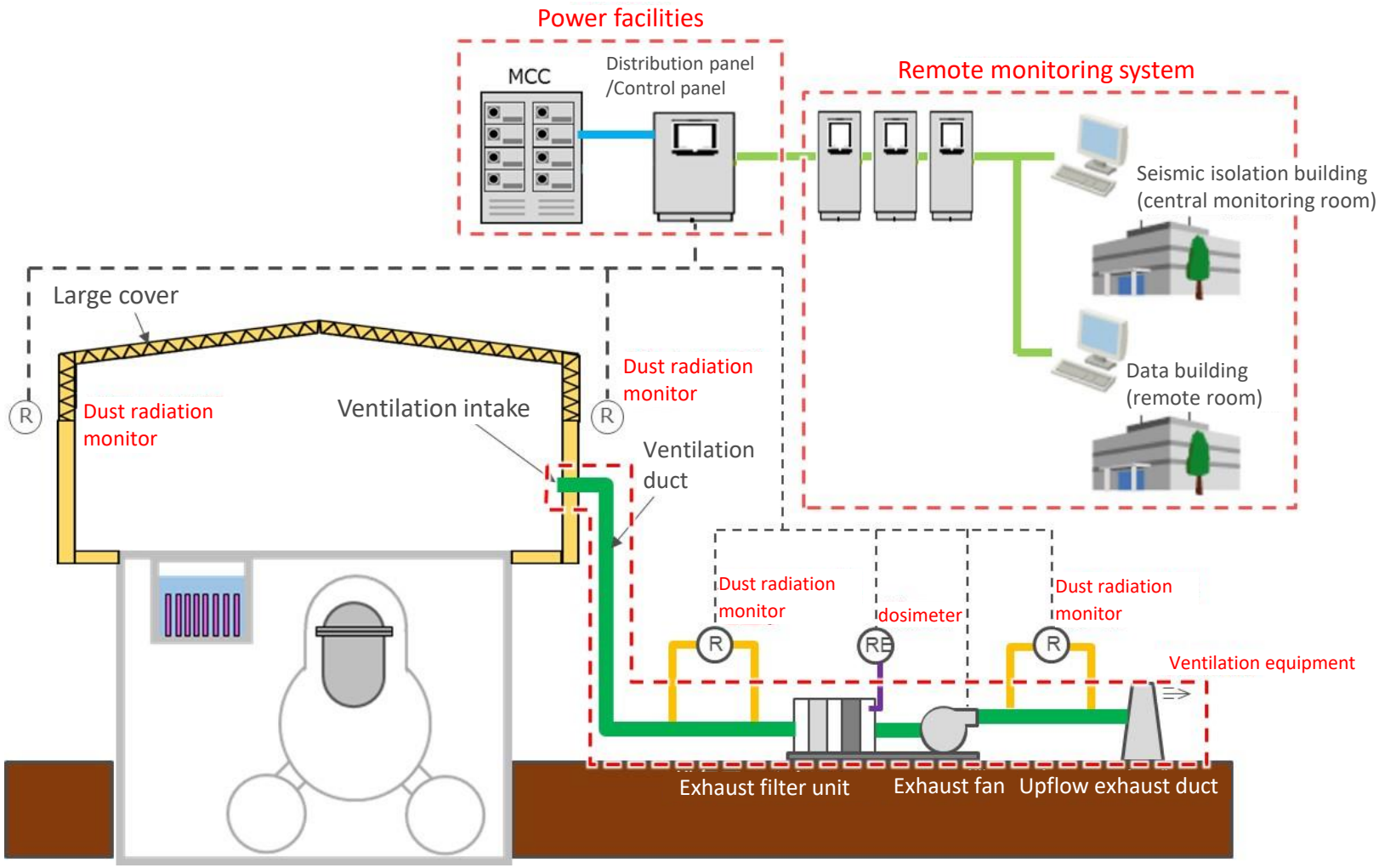
※ The roof will be opened and closed in order to install the rubble removal overhead crane as well as to remove rubble and install the fuel handling machine.

Unit 1 reactor building prior to cover installation

Current Unit 1 reactor building

5-1. Overview of large cover ancillary equipment

- After installation of the large cover, large cover ancillary equipment will be installed to remove rubble, etc.
- Large cover ancillary equipment include ventilation equipment, and dust radiation monitors, etc.

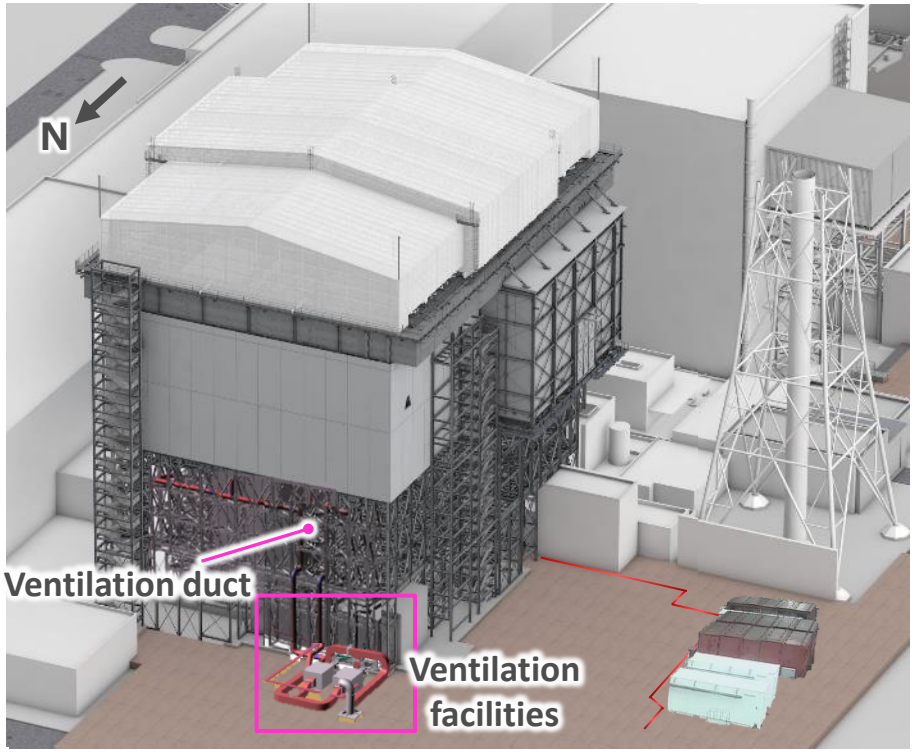


Configuration image of large cover ancillary equipment

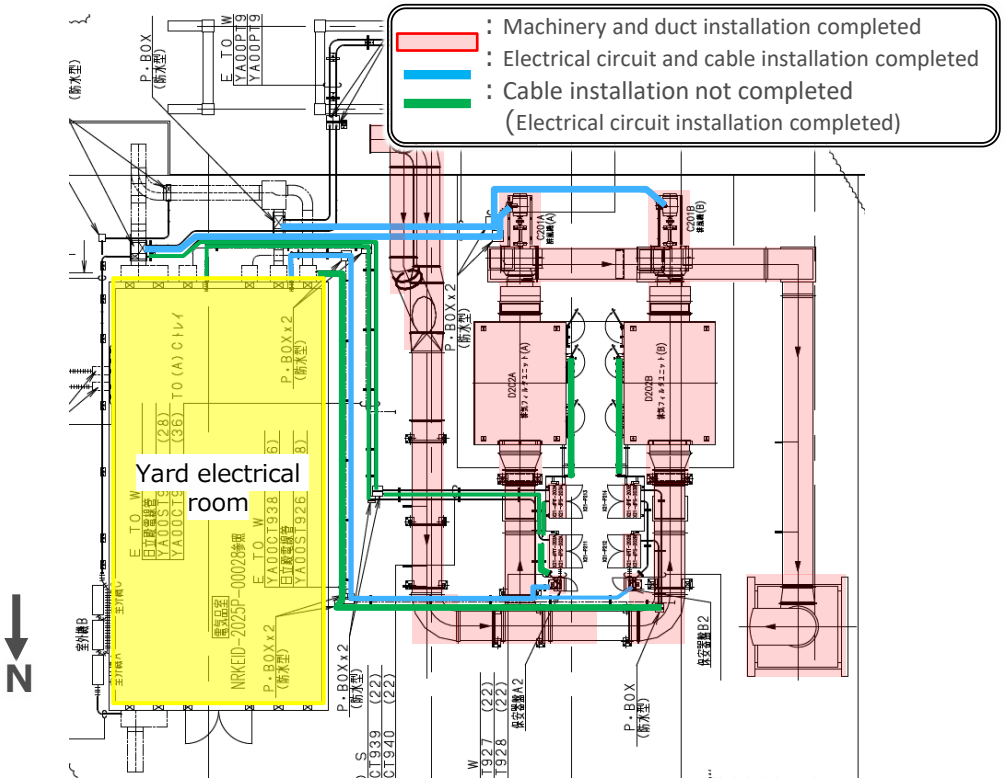
5-2. Status of large cover ancillary equipment installation (Ventilation facilities)

- Foundation bolt installation began on July 22, 2025. Installation of these foundation bolts was completed on November 17, 2025, and installation of the filter unit (unit 2/2) was completed on December 12. Currently, the duct, duct support and cable installation work is underway.

Foundation bolt installation (Completed) → Equipment installation (Completed) → **Now** Support Construction (90%) Duct Installation (95%) Cable installation (80%) → Trial operation adjustments



Overview of large cover ancillary equipment



Ventilation facilities progress: floor plan

5-3. Status of large cover ancillary equipment installation (Dust radiation monitors)

- Dust radiation monitor (dust monitors) container installation began on July 15, 2025. Dust monitor container installation was completed on July 16, 2025, and installation of terminals in the seismic isolation building and information wing were completed on December 18. Currently, dust monitor pipe and cable laying are underway.

Dust monitor container installation (completed)	**Now** Dust monitor pipe laying (75%) Remote monitoring equipment terminal Installation (90%)	Trial operation adjustments	System switch over

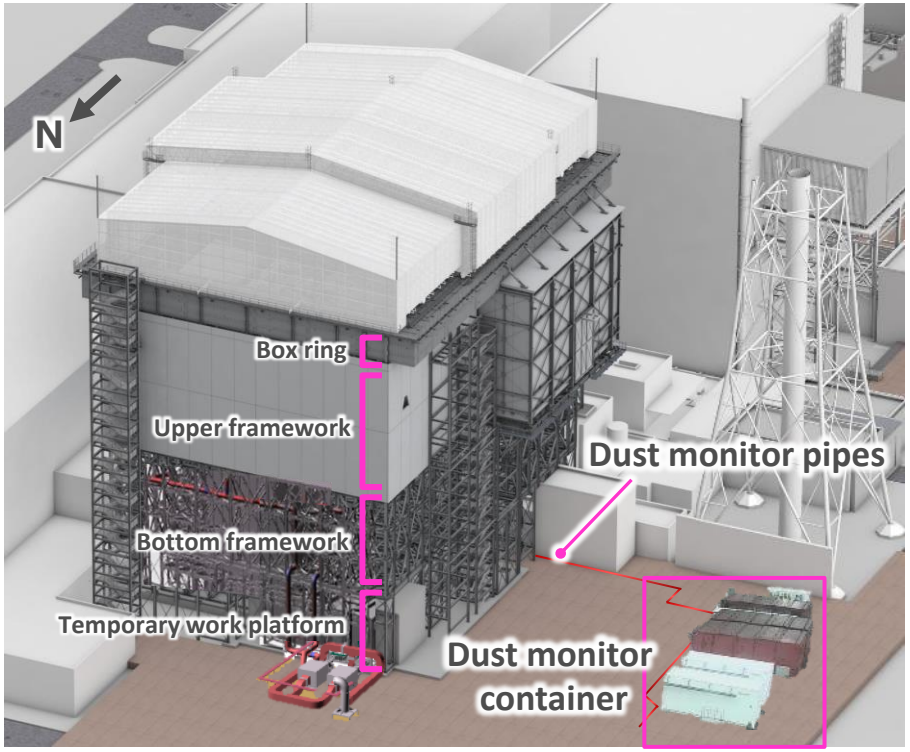
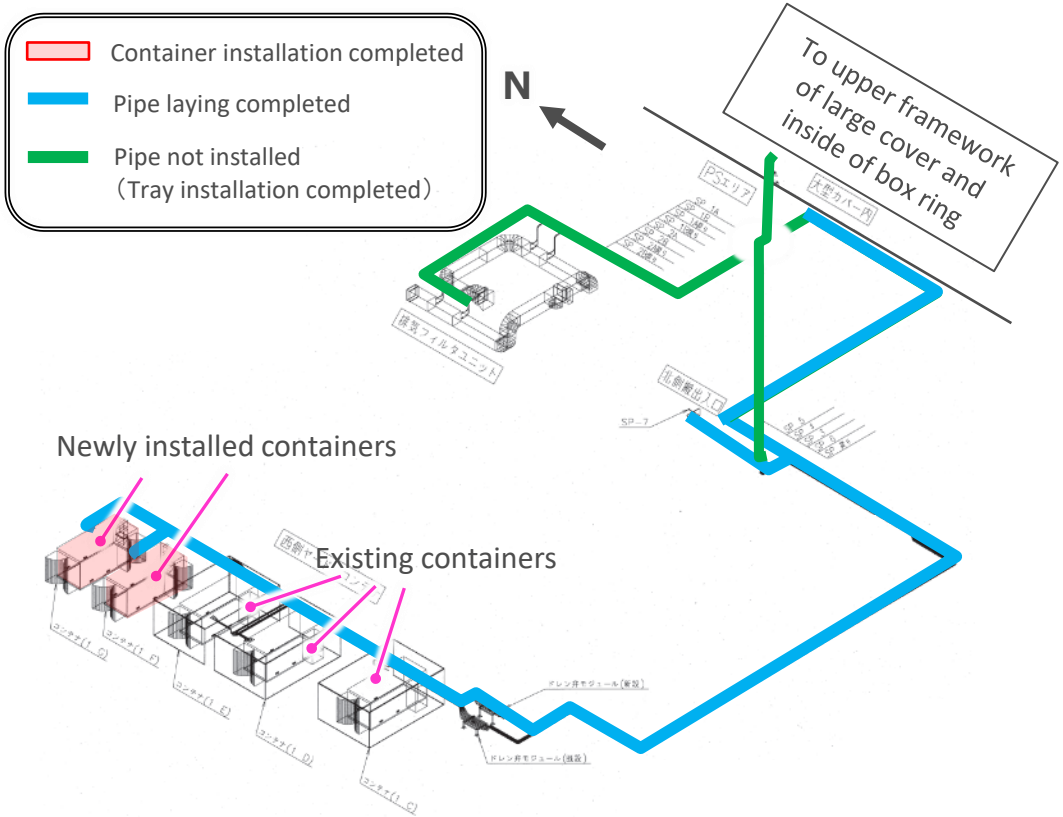


Diagram of large cover ancillary facilities



Dust monitor pipe progress: Bird's eye view

6-1. Repurposing the Unit 4 fuel handling machine for Unit 1

- In order to reduce waste, the fuel handling machine installed at Unit 4 in 2013 will be sent back to the manufacturer to be refitted and repurposed as the fuel handling machine for Unit 1.
- The following considerations are to be made when repurposing:
  - ✓ The equipment transports in accordance with law.※
  - ✓ All equipment taken out resend back to 1F from the manufacturer's factory.
  - ✓ All electrical components instruments, and fuel handling machines, etc. not to be repurposed shall not be transported and stored on site.

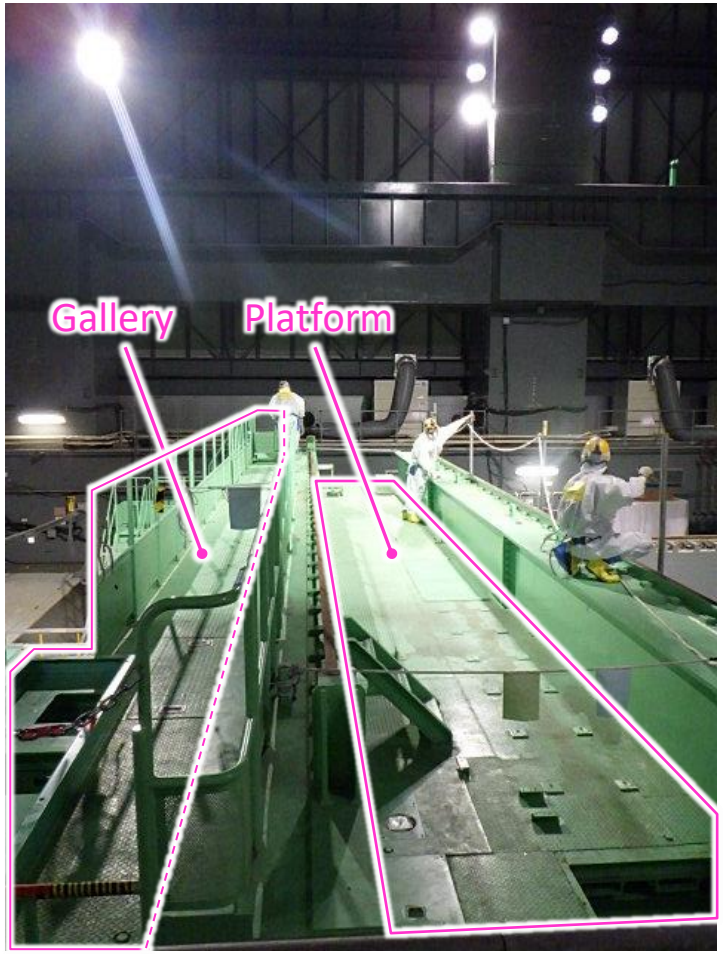
※ Equipment will only be transported off-site after confirming that the surface contamination density does not exceed 1/10 of the limit stipulated in the Rules on the Safety and Protection of Specific Nuclear Materials and Facilities at the Tokyo Electric Power Company Holdings, Inc. Fukushima Daiichi Nuclear Power Station.

Unit 4 fuel handling machine
Mass: 59 tons

[Workflow]

6-2. Repurposing as the Unit 4 fuel handling machine for Unit 1

- On November 4, 2025 we began disassembling the Unit 4 fuel handling machine for transport and to date we have completed removal of the platform/gallery.
- We will complete transporting all of the parts and materials to the factory during FY2025.

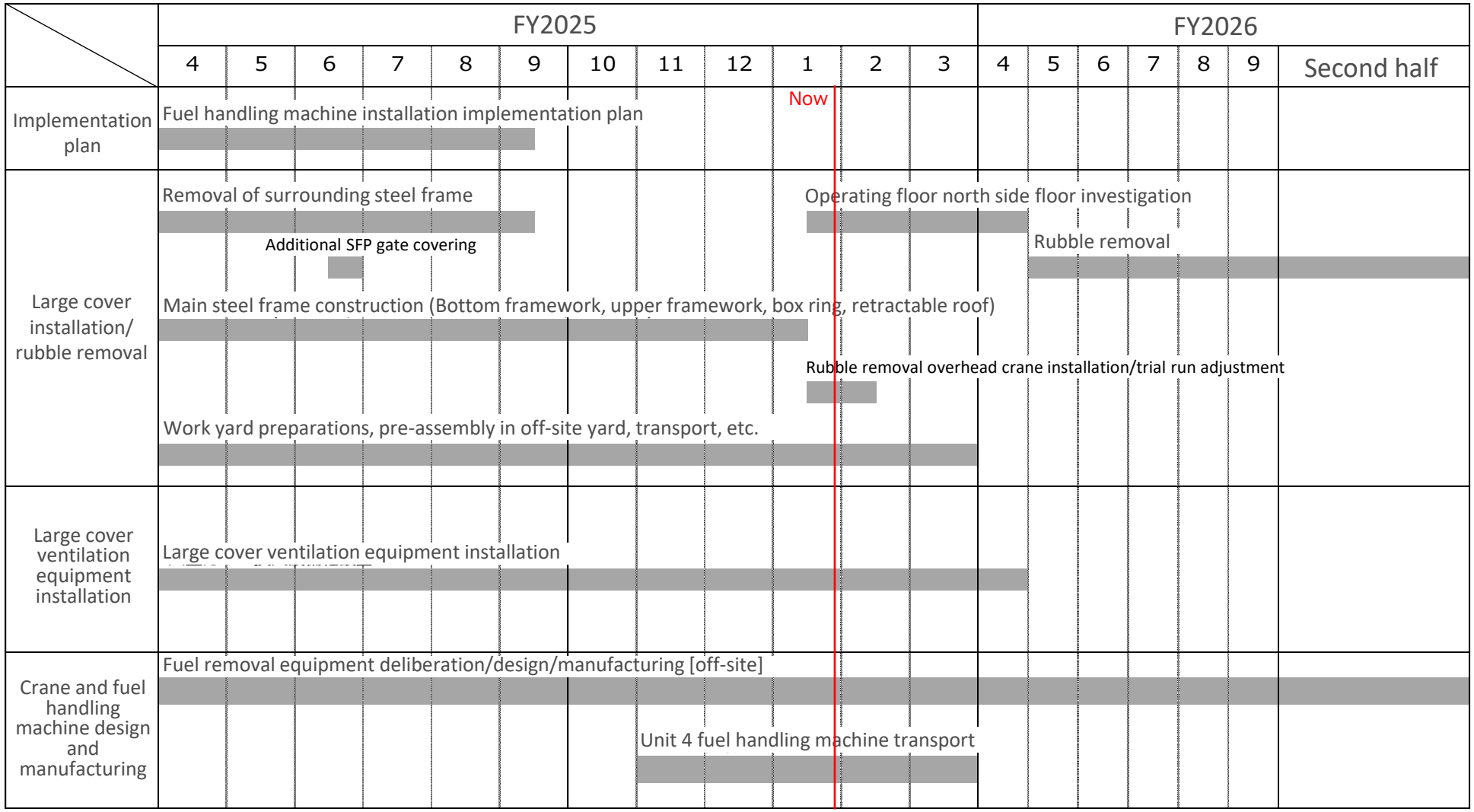


Prior to removal of the platform/gallery
(Photographed on December 11, 2025)

After removal of the platform/gallery
(Photographed on January 14, 2026)

7. Schedule of large cover installation work, etc.

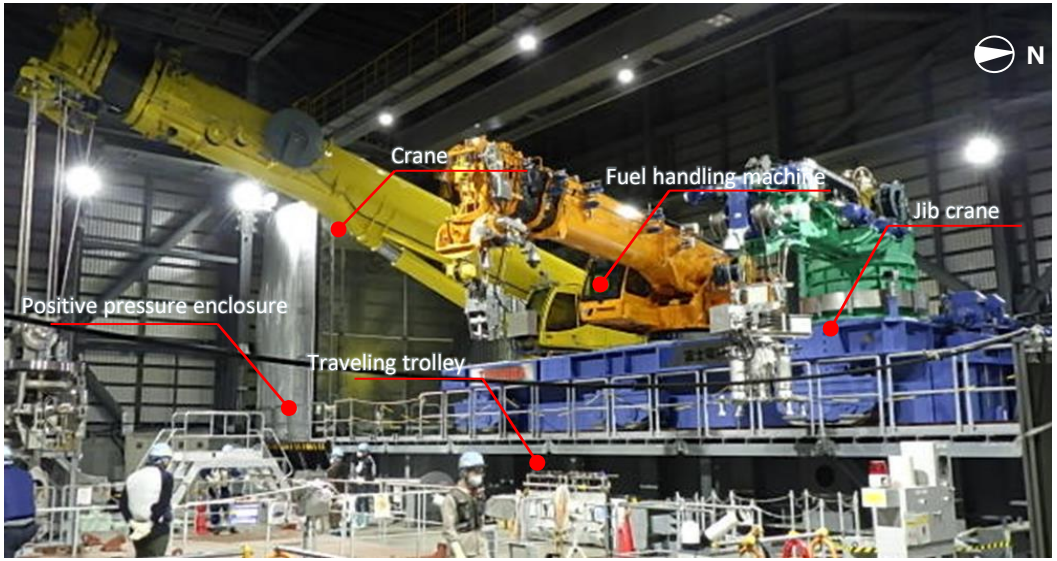
- Large cover construction was completed on January 19, 2026.
  We will continue with rubble removal overhead crane installation and ancillary work, such as ventilation equipment installation.
- On January 15 we also began an investigation of the floor on the north side of the operating floor by using cameras to examine the conditions there.



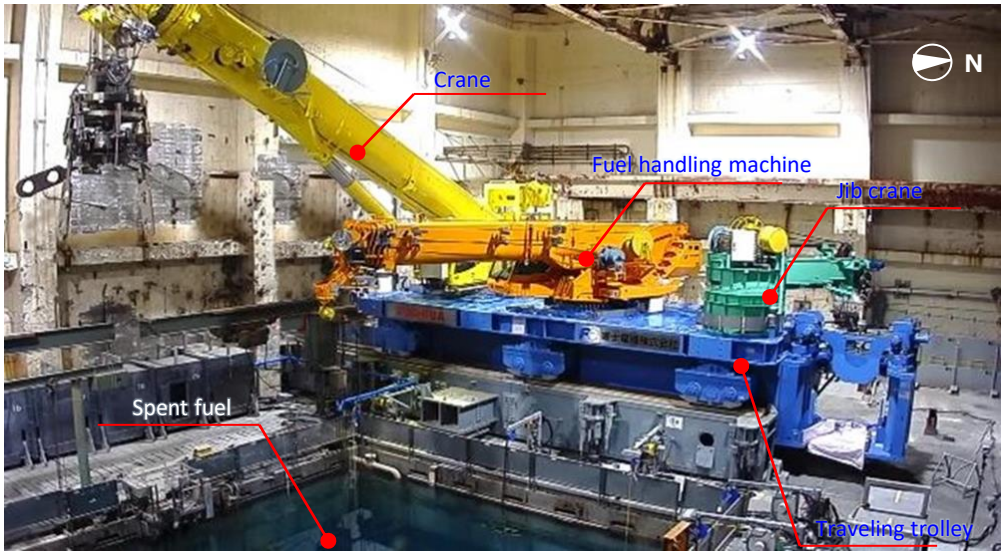
8. Unit 2 fuel removal plan and progress

- A fuel handling equipment is currently being installed with the intent of commencing fuel removal during FY2026.
- Test operation (once-through tests※) has been under way since December 12, 2025.

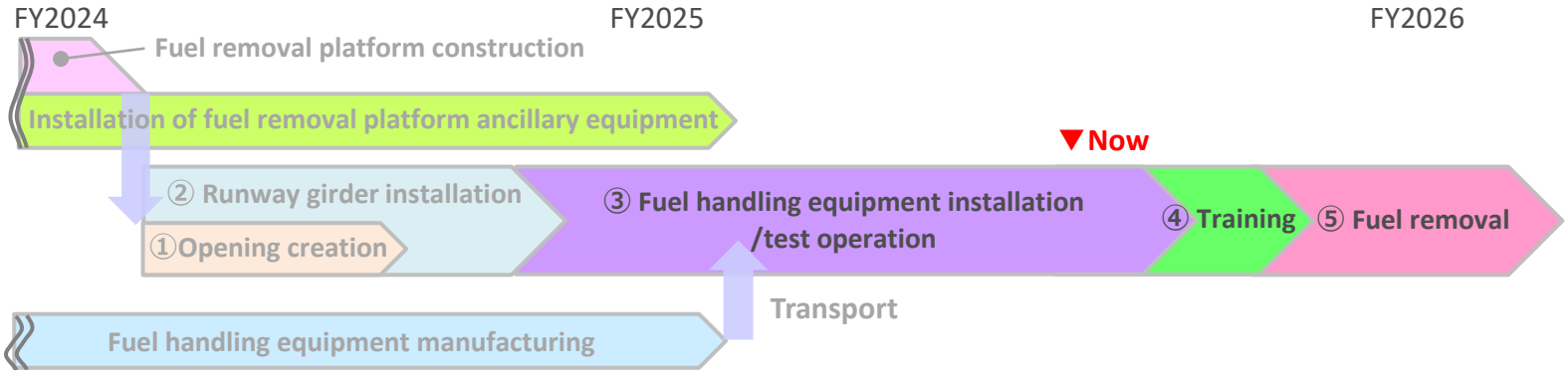
※ Tests to examine the fuel removal workflow using onsite transport containers (casks) and simulated fuel



Entire fuel handling equipment inside the fuel removal platform
（Photographed on September 8, 2025）



Entire fuel handling equipment inside the reactor building
(photographed with a remotely operated camera)
（Photographed on December 6, 2025）

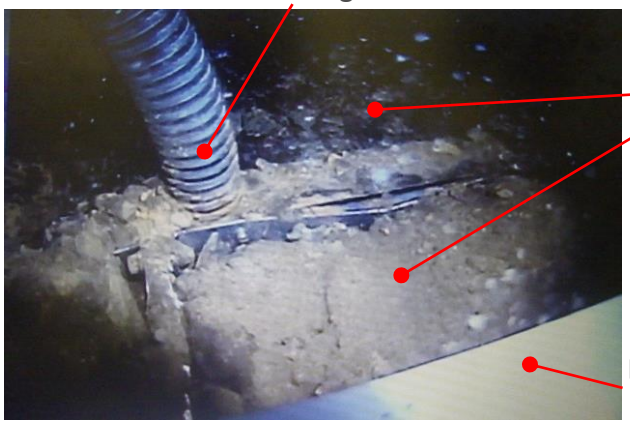


9-1. Cleaning the Unit 2 cask pit bottom

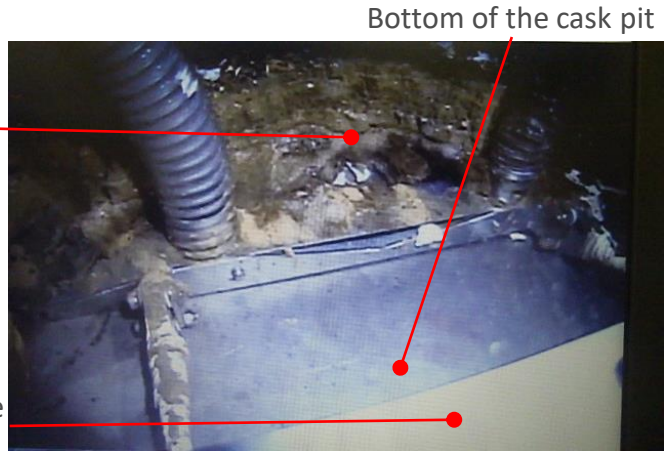
- On October 21, 2025, we began using submersible cleaning robots to clean the bottom of the cask pit.
- There was much fine sediment, therefore this sediment was vacuumed up to the point where it should have no impact on cask installation. The task was completed on November 5, 2025.

Submersible cleaning robot

<Device specifications>
Dimensions: Approx. 370×620×340 [mm]
Weight: Approx. 18kg



Bottom of the cask pit prior to cleaning
(Photographed on October 22, 2025)



Bottom of the cask pit during cleaning
(Photographed on October 22, 2025)

Submersible ROV

<Device specifications>
Dimensions: Approx. 610×290×200 [mm]
Weight: Approx. 8kg

During cleaning of the southeast side of the bottom of the cask pit
(Photographed on October 31, 2025)

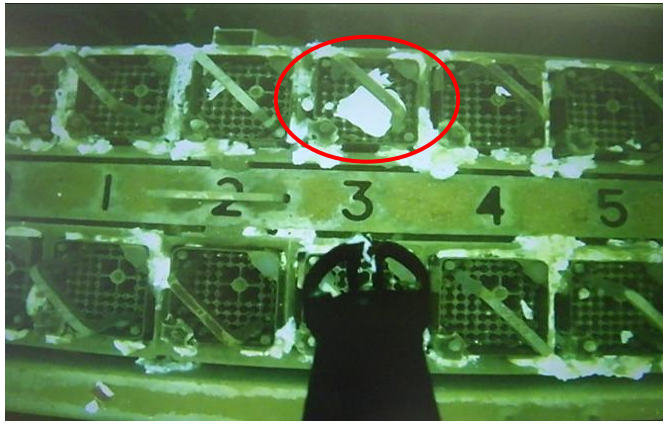
Bottom of cask pit after cleaning
(Photographed on November 5, 2025)

9-2. Removing sheet-like debris from the top of fuel at Unit 2

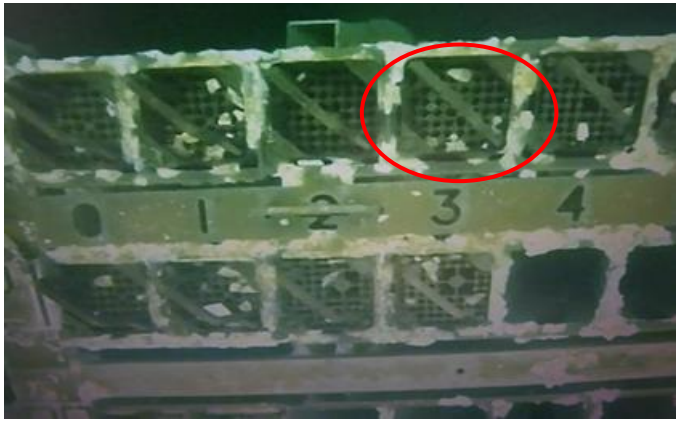
- On November 10, 2025, we began using a submersible ROV to remove pieces of sheet-like debris that may hinder fuel removal. This task was completed on December 12, 2025.
- The sheet-like debris is thin, and we assume that it is the urethane coating used on handrails around the pool that has deteriorated and become thin, as well as sealant fragments from the building roof that have peeled off.
  - White corrosion products originating from the aluminum material have been found deposited on the surface of the fuel storage racks as a result of the seawater injection used as coolant. Similar white deposits were also observed on the Unit 3 fuel storage rack, and this will have no impact on fuel removal operations.

Submersible ROV

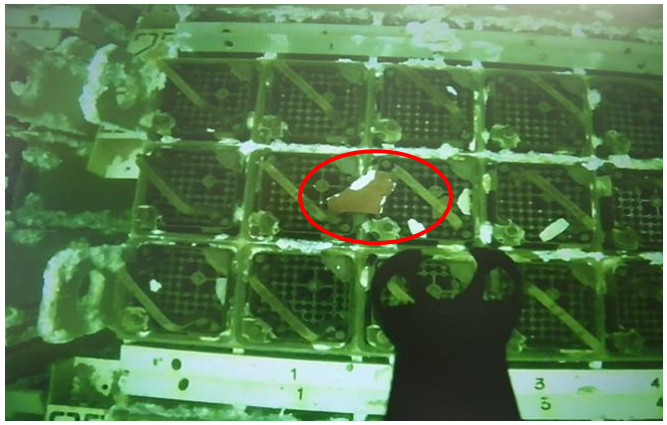
<Device specifications>
Dimensions: Approx. 610×290×200 [mm]
Weight: Approx. 8kg



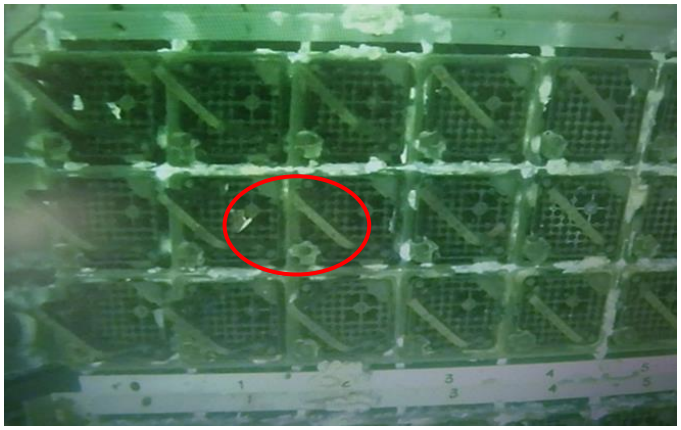
Prior to removal (Photographed on December 10, 2025)



After removal (Photographed on December 12, 2025)



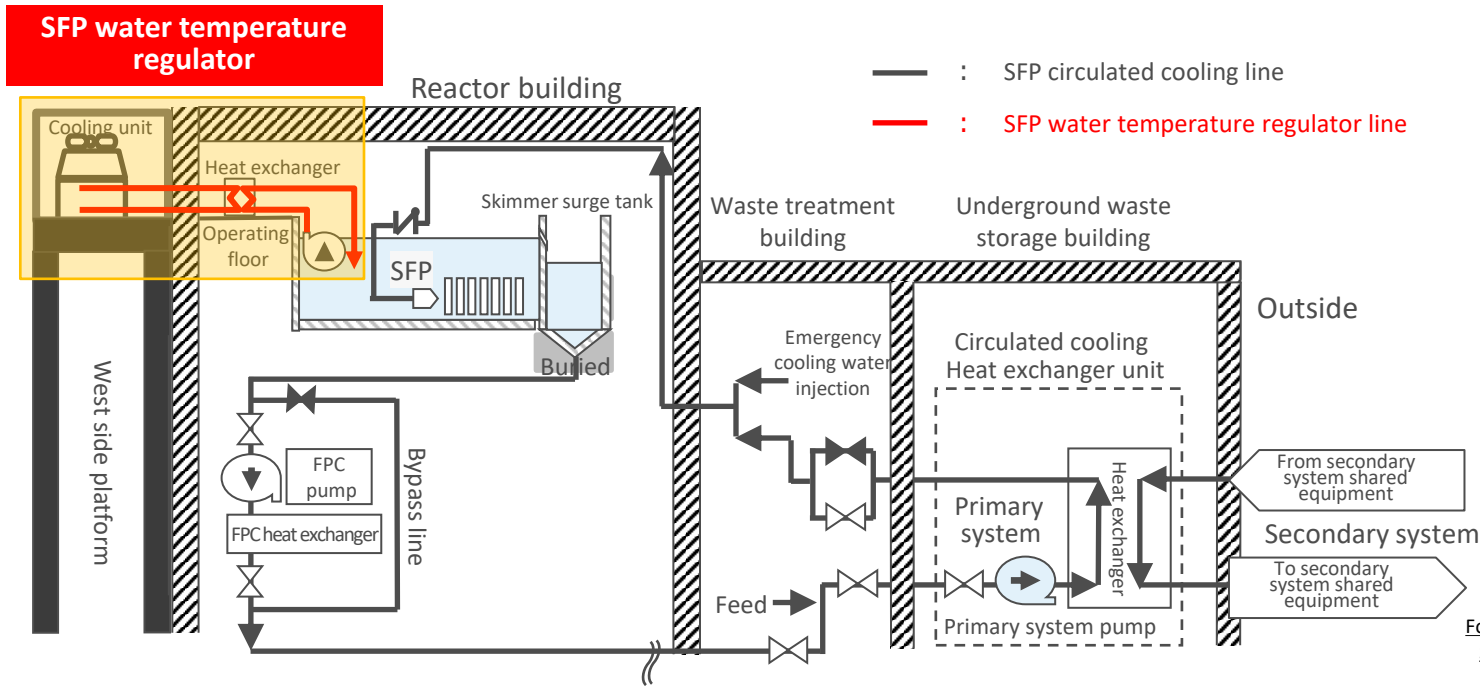
Prior to removal (Photographed on December 11, 2025)



After removal (Photographed on December 12, 2025)

10. Measures to be implemented during shutdown of the Unit 2 SFP circulated cooling system during the fuel removal period

- We plan to commence the removal of fuel from Unit 2 during FY2026, and will be shutting down the SFP circulated cooling system. There is a risk that the resulting steam may impact fuel removal operation. (When the system was shut down for approximately 3½ months during FY2024, the difference in temperature between the water and the air generated steam)
- Therefore, in order proceed smoothly with fuel removal, we have prepared a device for adjusting the water temperature of the SFP. The device is currently in storage and ready to use in order to prevent the generation of steam resulting from shutdown of the SFP circulated cooling system. As this device can be installed quickly, at current time only preparatory tasks are being performed.
- Even when the Unit 2 SFP circulated cooling system is shut down, the operational limit temperature of 65°C noted in the implementation plan will not be exceeded and there will be no safety issues.



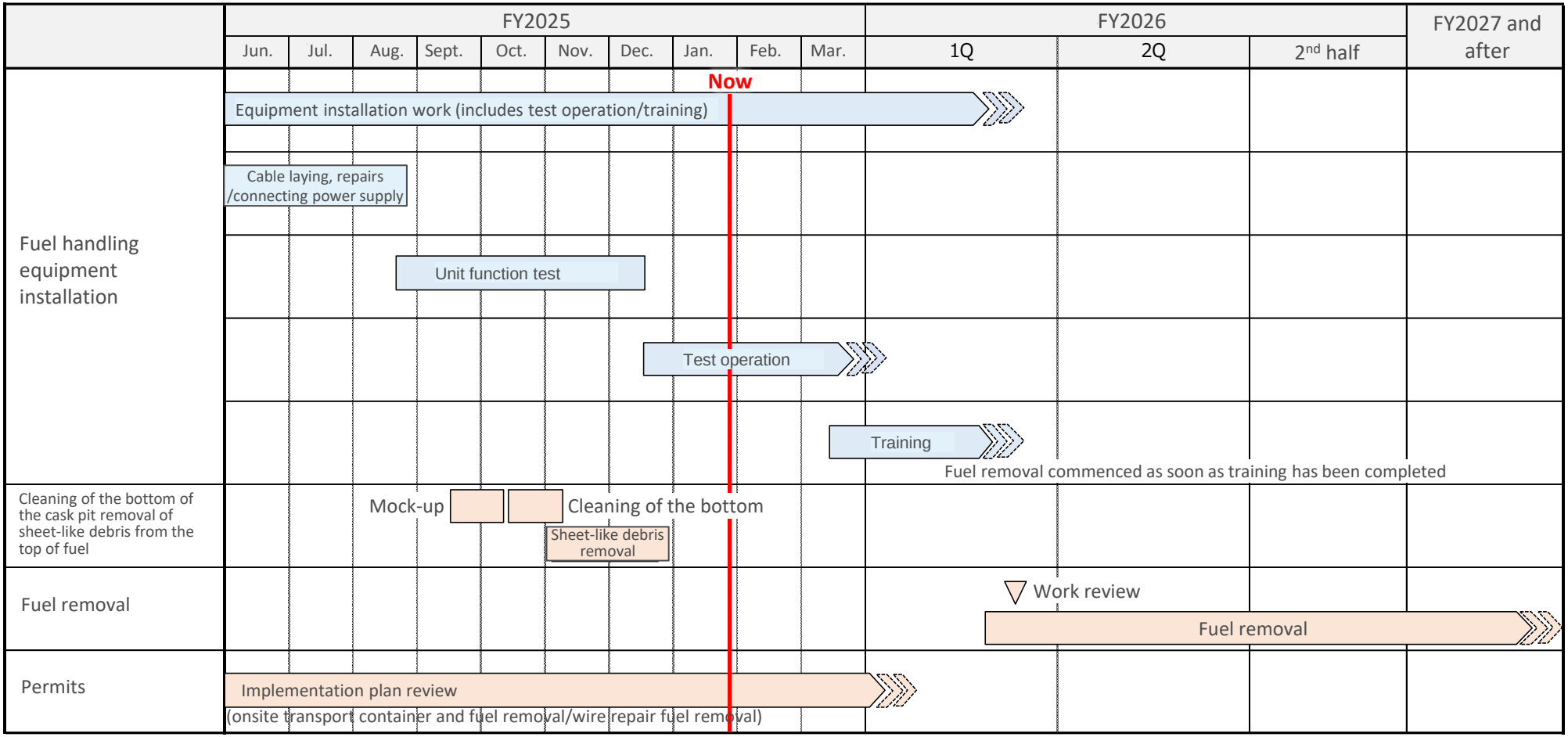
Unit 2 SFP system schematic

SFP conditions when steam was observed (October 2024)

Footage from the fuel-removal preparation camera during SFP steam generation (Reactor building ceiling camera)

11. Schedule for Unit 2 fuel handling equipment installation, etc.

- Work is proceeding smoothly with the intent of commencing fuel removal during FY2026.
- We will continue with this task while prioritizing safety.



※ Changes may be made in accordance with schedule progress.
※ The line chart includes preparation and cleanup periods.

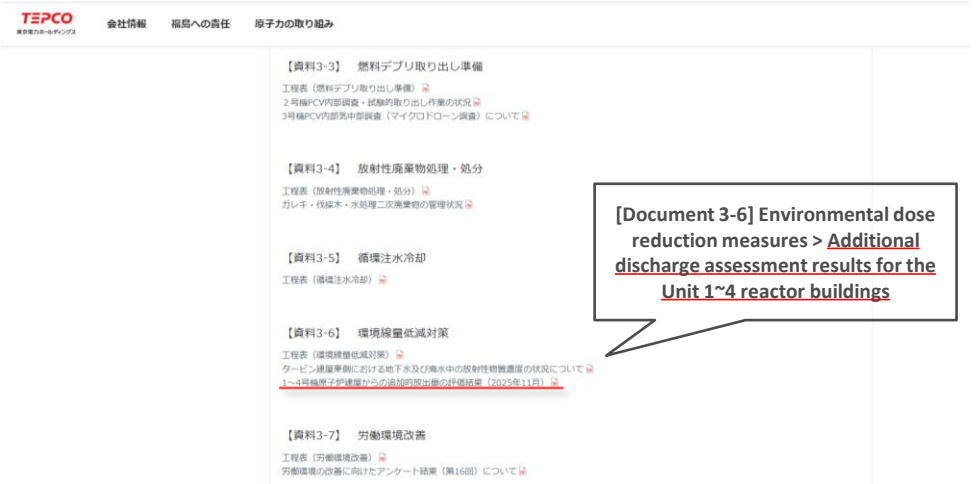
[Reference 1] Dust monitor measurement disclosure locations and viewing procedure (In Japanese only)

① Go to the TEPCO HD website and select: Responsibilities to Fukushima > Decommissioning project > Disclosed records

②Select: Reference Materials> Committee meeting materials (Status of Progress on Mid- to Long-term Road Map, etc.)

③ Select: Status of Progress on Mid- to Long-term Road Map, etc. (Decommissioning, contaminated water, treated water countermeasures team meetings / secretariat meetings) > The month and year you want to check

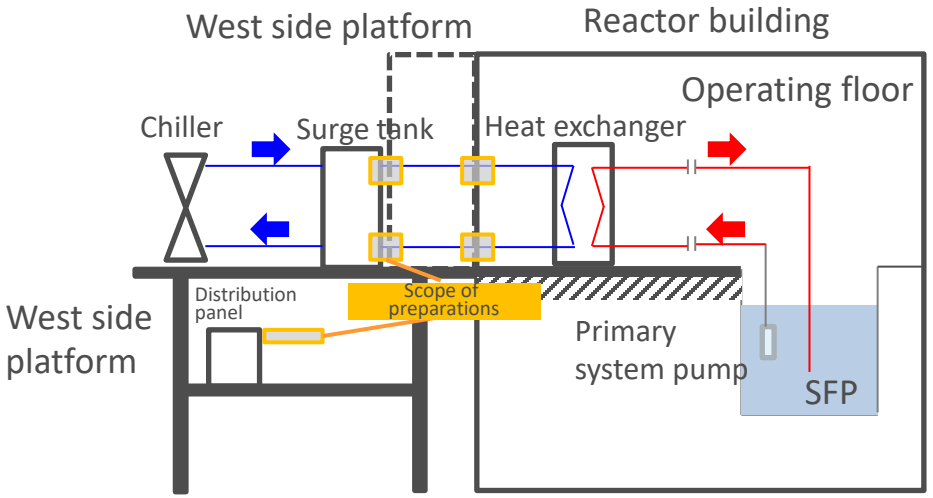
④ Select and download: [Document 3-6] Environmental dose reduction measures > Additional discharge assessment results for the Unit 1~4 reactor buildings



[Reference 2] SFP Water temperature regulator device

- SFP water temperature can be lowered by directly taking water from the SFP, cooling it, and returning it to the SFP thereby preventing fog.
- The device has been purchased (currently being stored off-site) and some preparations are being made to enable it to be quickly installed if needed. These preparations will be completed before the commencement of fuel removal from spent fuel pool.
- If it is determined that this device is needed, it can be installed in approximately two months.
- Furthermore, since it will be installed on the operating floor of the reactor building, which is a high-dose environment, a mock-up is being used in an effort to shorten the installation process and reduce exposure.

Device configuration and scope of preparations



【Main preparations】
①Boring holes in the reactor building and the west side platform wall
②Device installation mock-up that assumes a high-dose work area
③Distribution panel installation and power cable laying
（③Power provided by temporary generator until completion)

: Primary system line
: Secondary system line

Preparations schedule

		FY2025	FY2026
		4Q	1Q
Milestones			Commencement of Unit 2 fuel removal
Device		Device manufacturing	Storage
Preparations	Machinery	①Preparations (boring, etc.)	
		② Mock-up of high-dose work	
	Electric/ Instruments	Temporary generator installation, temporary cable laying	
		③ Distribution panel installation/ power cable laying	