

Fukushima Daichi Nuclear Power Station Unit 3

Commencement of Personnel Access Lock Room Investigation

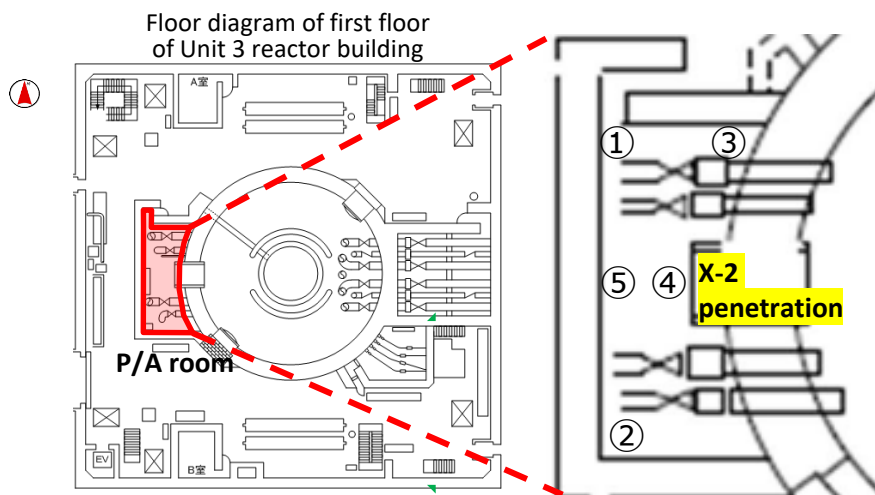
< Reference document >
August 18, 2025
Tokyo Electric Power Company Holdings, Inc.
Fukushima Daiichi Decontamination &
Decommissioning Engineering Company

- In preparation for the full-scale fuel debris retrieval from the Fukushima Daiichi Nuclear Power Station Unit 3, on August 19, 2025, we plan to commence an investigation of the personnel access lock room (P/A room) ※ in order to examine the environment on the first floor of the reactor building.
- In this investigation, we will measure the air dose rates and obtain point cloud data, etc. inside the P/A room.
- High-dose rates were confirmed inside the P/A room during an investigation in 2016, therefore remotely operated robots will be used.
- We are considering accessing the fuel debris using the X-6 penetration and X-1B penetration, etc. Through this investigation, in order to deliberate whether any penetrations other than these penetrations can be used for fuel debris retrieval, we will also check the appearance of the X-2 penetration in the P/A room.
- The results acquired during this investigation will also be leveraged to the deliberation of full-scale fuel debris retrieval method and environmental preparations.

※ The P/A room was used by workers when entering the reactor to perform work and inspections, etc.

2016 measurement results

Measurement point	①	②	③	④	⑤
Air dose equivalent rate (mSv/h)	13	80	50	60	80



Investigation devices



SPOT

Equipped with cameras, dosimeter, and lidar

Move around inside and investigate the P/A room



Packbot

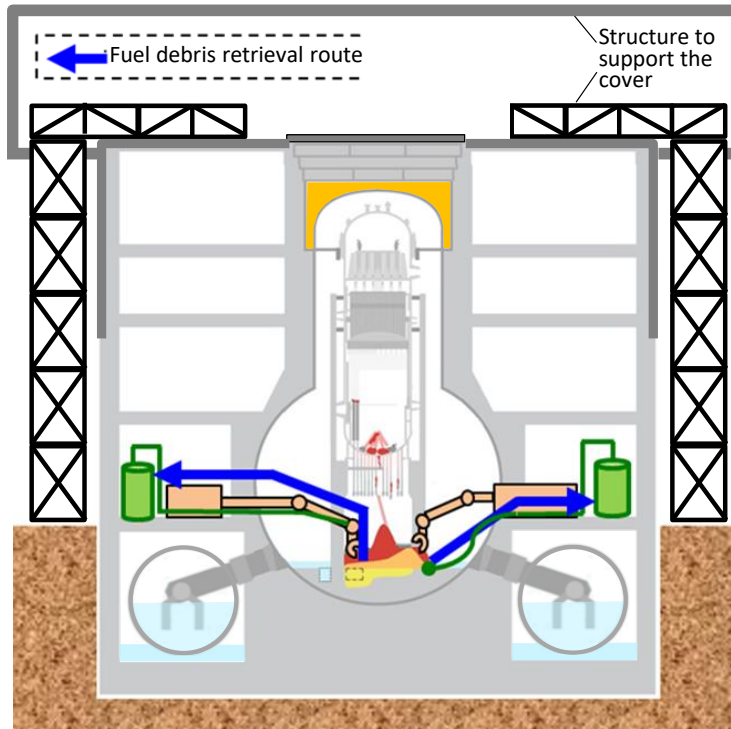
Equipped with a dosimeter

Move around inside and investigate the P/A room

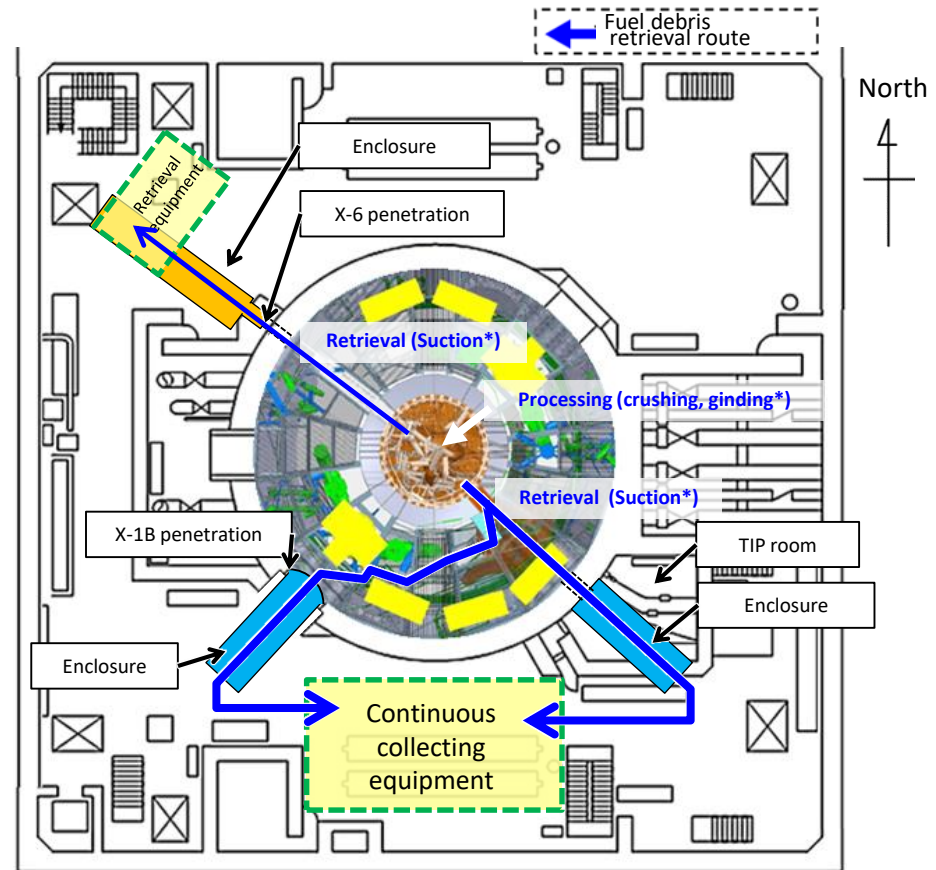
Appendix ④ Overview of Side Access Retrieval

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- Primary containment vessel penetrations, such as X-6 penetrations on the first floor of reactor building, will be leveraged during side access point retrieval.
- Therefore, it is assumed that doses inside primarily the reactor building will be reduced during side access point preparations.



Cross section of reactor building



※Current assumptions. Decision is made based on “verification of processing and retrieval technologies”.

Bird's-eye view of the first floor of reactor building

2. Overview of the fuel debris retrieval method design deliberation from Unit 3

2.2 Retrieval method selection deliberation plan (3/4)

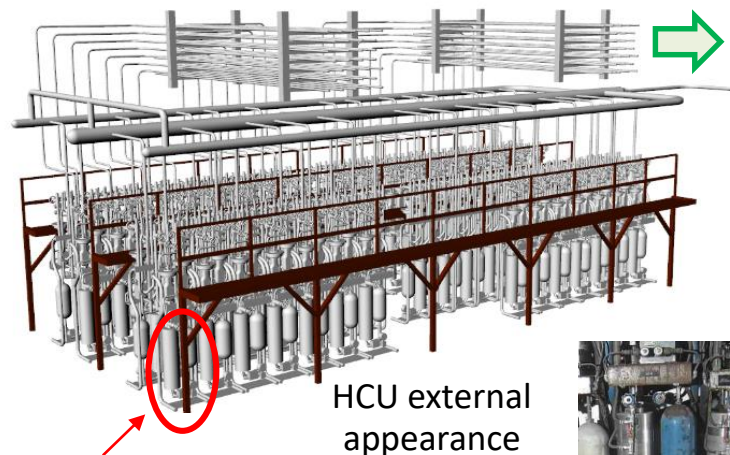
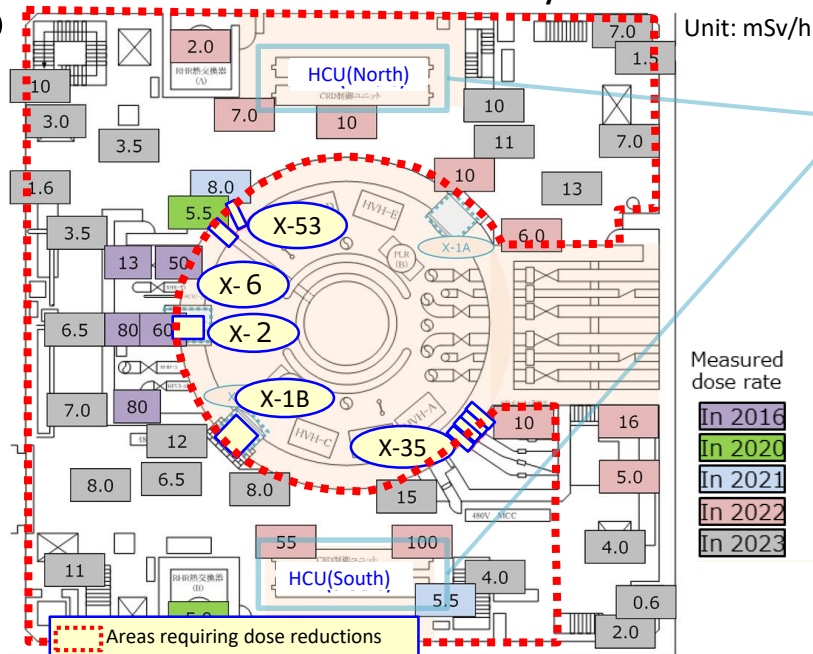
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Advancement of environmental improvement (cont.)

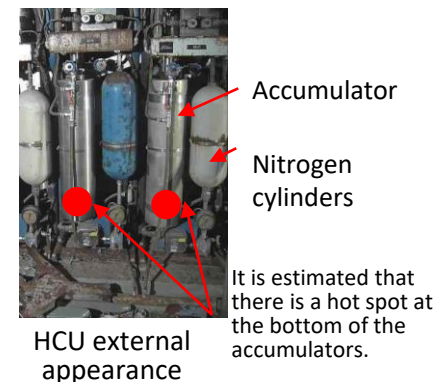
[Inside the reactor building]

[First floor of the reactor building]

Areas where dose reductions are necessary



There are a total of 137 accumulators and nitrogen cylinders on the north and south sides.



[Major issues expected]

- **The radiation level on the first floor of the reactor building is generally high.** (Decontamination efforts to date have not been able to sufficiently reduce dose levels.)
⇒ Going forward, hot spots will be identified and dose reduction measures, such as removal and shielding, etc., repeatedly implemented.

[Major issues expected]

- **The HCU (CRD control unit) highly radioactive**
- ✓ There are 137 units on the north and south sides of the HCU, each requiring individual handling.
- ✓ Dose levels are high because the HCU system is connected to the PCV.
- ⇒ Identify contaminated areas in the HCU, and reflect this information in the construction plan in the form of shielding or removal, etc..

*: Dose reduction measures will be implemented on the second floor as necessary.