

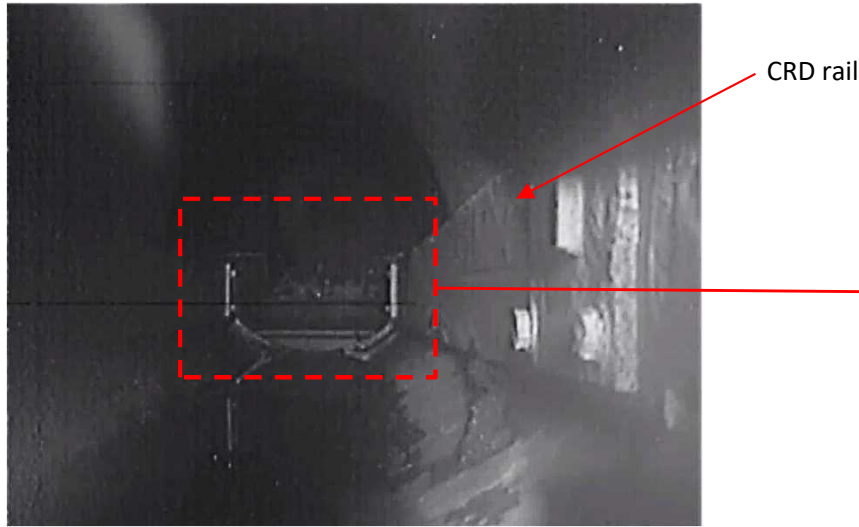
Fukushima Daiichi Nuclear Power Station

Unit 2 Primary Containment Vessel Internal Investigation/Trial Retrieval Preparations

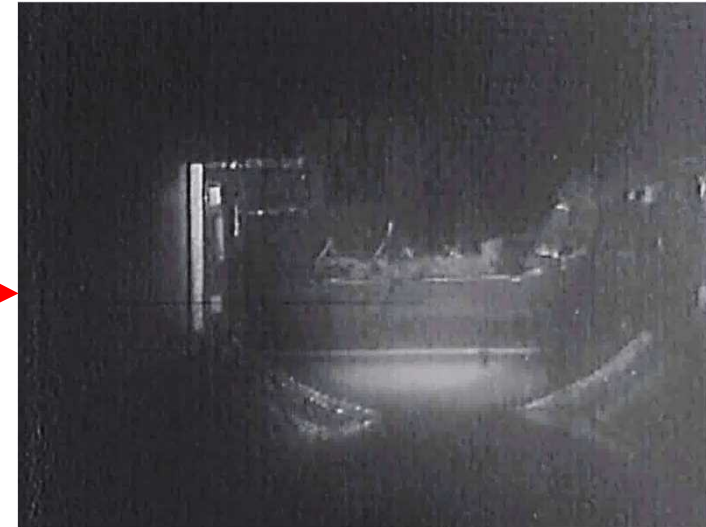
Completion of deposit removal inside the X-6 penetration

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 Tokyo Electric Power Company Holdings, Inc.
 Fukushima Daiichi Decontamination &
 Decommissioning Engineering Company

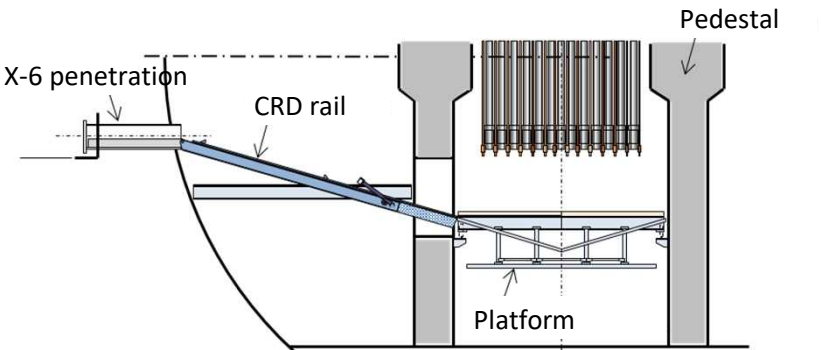
- The deposit removal work inside the X-6 penetration at Unit 2, which commenced on January 10, 2024, has been completed today (May 13). Going forward, we will dismantle the deposit removal equipment (high pressure water and abrasive water jet) and will prepare for the installation of the X-6 penetration connection structure and the connection pipe, which are used for the PCV internal investigation and the fuel debris trial removal.



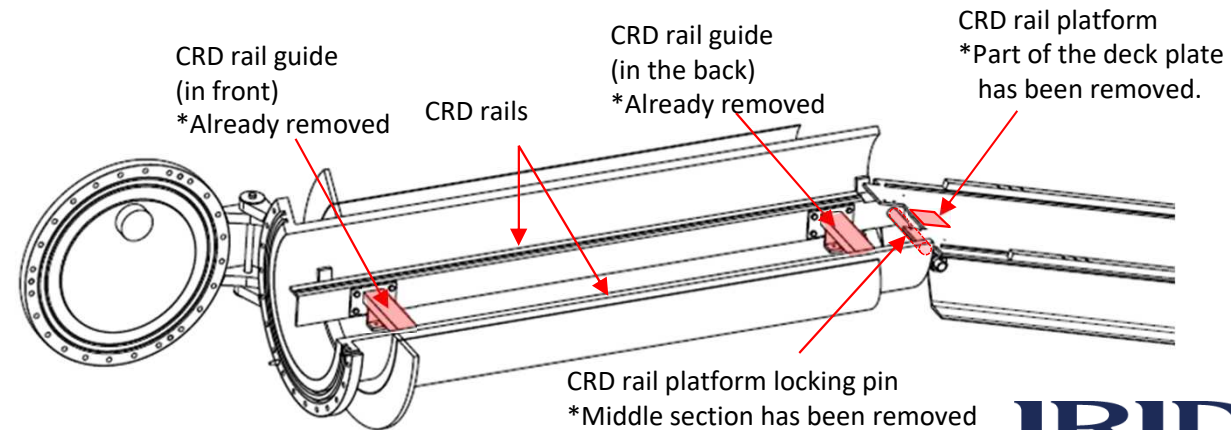
Condition of the X-6 penetration after the deposit removal (from the front to the back) (Photo taken on May 10)



Condition of the X-6 penetration after the deposit removal (in the back) (Photo taken on May 10)



Cross-sectional view of the X-6 penetration, reactor pressure vessel pedestal



Bird's-eye view of the X-6 penetration

[Reference] Primary Steps of the Fuel Debris Trial Retrieval (Internal Investigations/Debris Sampling)

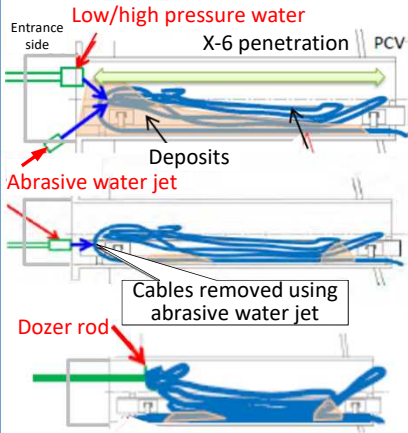
Excerpt from the material of the Mid- to Long-term Roadmap progress published on April 25, 2024

1. Isolation chamber installation

2. Opening of the X-6 penetration hatch

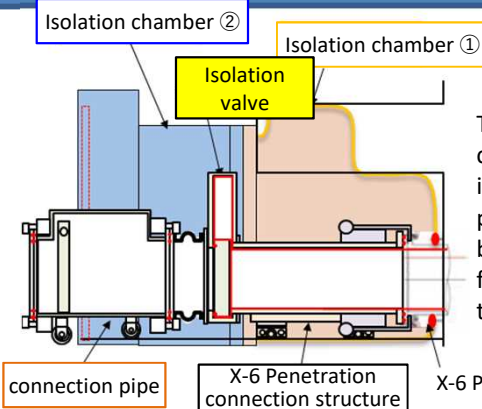
3. Removal of deposits from inside the X-6 penetration

Removing deposits/cables from inside the X-6 penetration



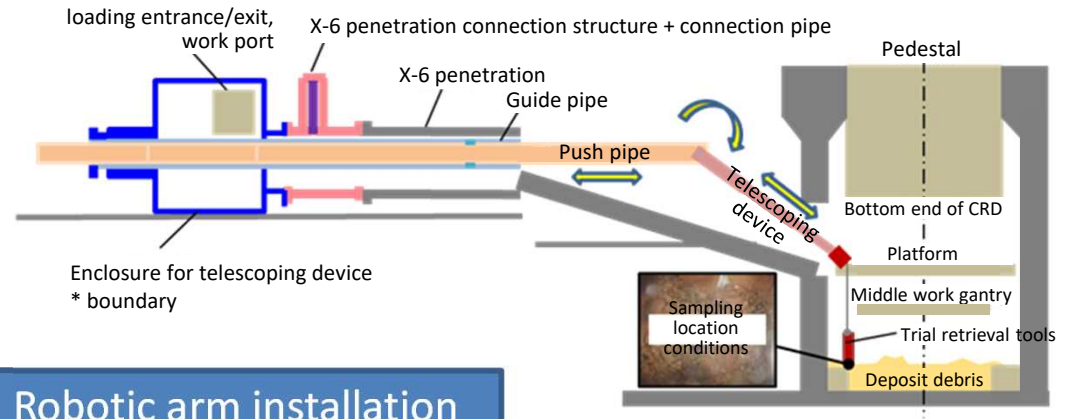
- Deposits pushed with low/high-pressure water
- Cables removed with Abrasive water jet
- Cables pushed with dozer rod

4. Installation of X-6 penetration connection structure and connection pipe

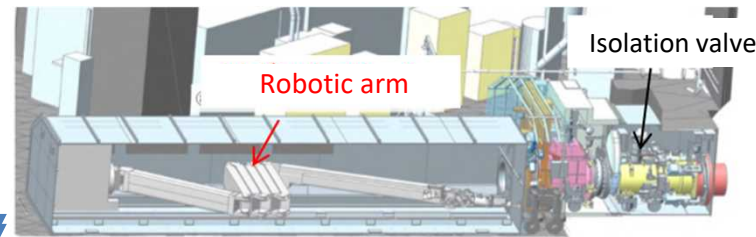


The connecting structure and connection pipe will be installed at the X-6 penetration and the boundary will be changed from the isolation chamber to the connection structure.

5. Installation of telescopic device
6. Trial retrieval (debris sampling using telescopic device)

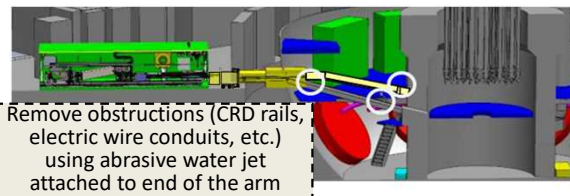


7. Robotic arm installation



8. Internal investigation/debris sampling using robotic arm

① Internal investigation



(Note)

Isolation valve: Valve installed to separate the inside of the PCV from the outside

Abrasive Water Jet: Combines high pressure water with an abrasive to improve cutting ability

② debris sampling using robotic arm

