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Soundness Inspection of Unit 2 TIP Guide Pipe for the Investigation of the Reactor and Thermometer Installation

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Tokyo Electric Power Company

東京電力 TEPCO

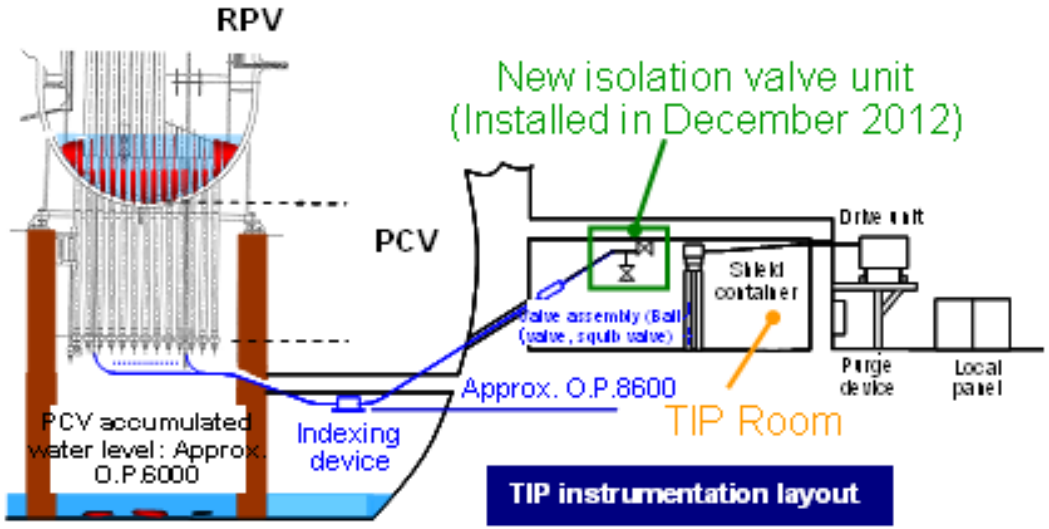
Purpose and Overview

Purpose

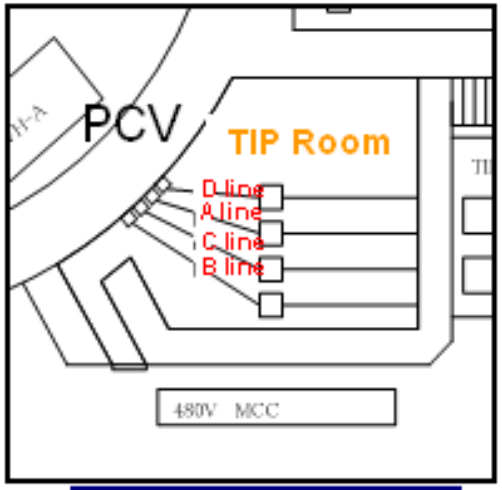
The soundness of Unit 2 TIP guide pipe will be inspected in order to determine the feasibility of investigating the inside of the reactor utilizing the TIP guide pipe and installing a thermometer in the TIP guide pipe.

Overview

Insert a fiberscope into the TIP guide pipe to inspect its soundness (check for clogging and damages) based on the acquired images.



TIP instrumentation layout

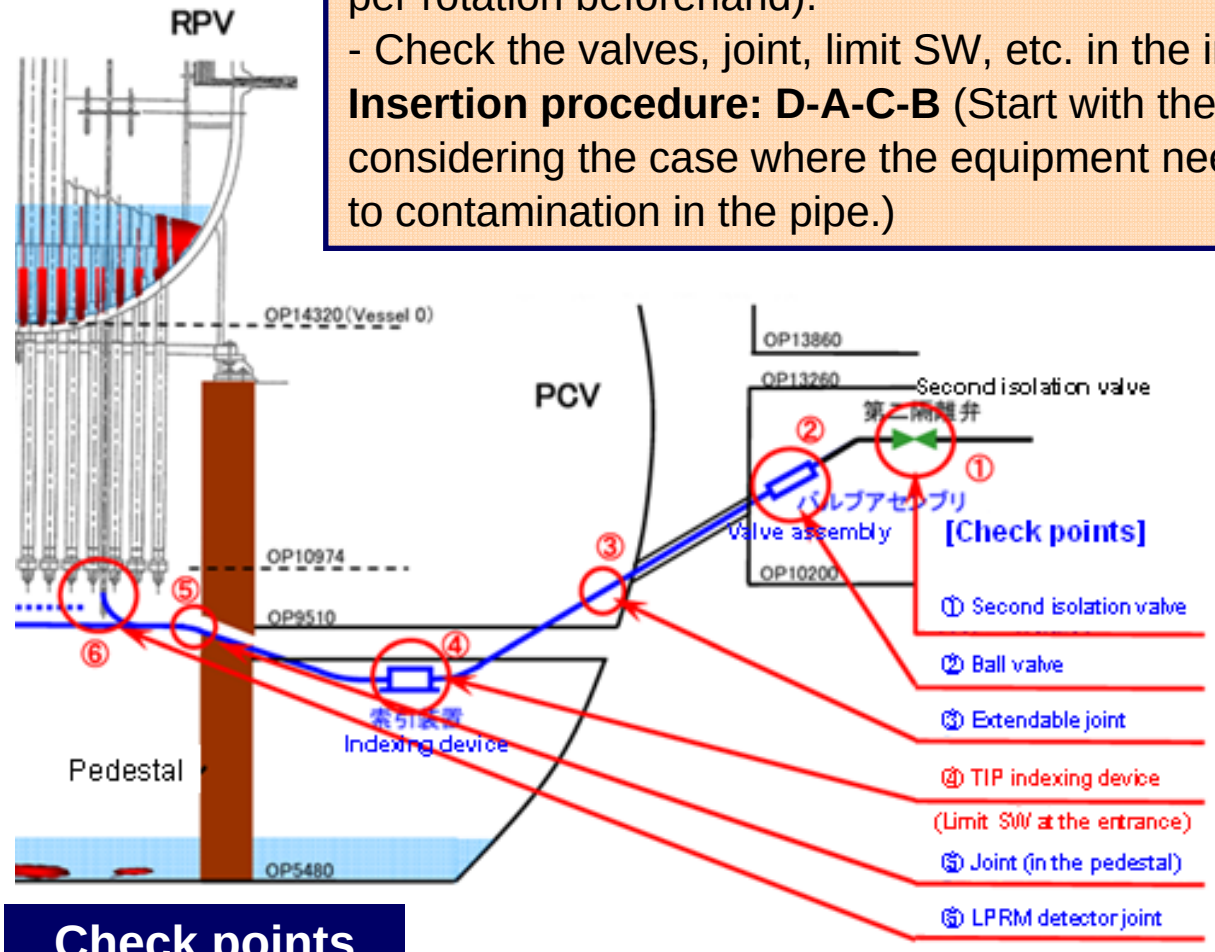


TIP Room layout

Inspection Procedure

Ways to confirm the feeding length
- Visually confirm the marks put in the interval of 5m.
- Check the number of times the handle rotated (Measure the feeding length per rotation beforehand).
- Check the valves, joint, limit SW, etc. in the images.

Insertion procedure: D-A-C-B (Start with the pipe in the back of the TIP Room considering the case where the equipment needs to be moved or removed due to contamination in the pipe.)



Check points

Judgment on work termination

Terminate the work and withdraw from the TIP Room if the atmosphere dose rate in the work area exceeds 3mSv/h or the surface dose near the penetration exceeds 30mSv/h.

Schedule (Draft)

1. Perform soundness inspection of the 4 TIP guide pipe utilizing a fiberscope.
2. Determine the investigation items for the inside investigation of the reactor based on the soundness inspection results [Hold point: March 1].
3. Perform temperature measurement after modifying the feeding/winding unit to enable continuous temperature measurement [April].