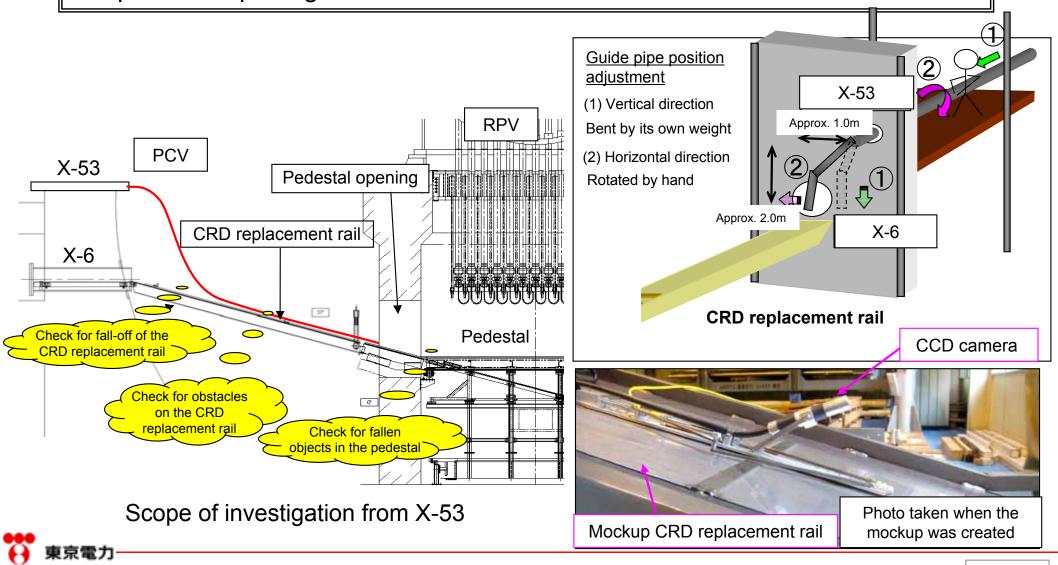
#### Investigation Results of the Inside of Unit 2 PCV at Fukushima Daiichi Nuclear Power Station (Guide Pipe Removal)

#### April 22, 2013 Tokyo Electric Power Company



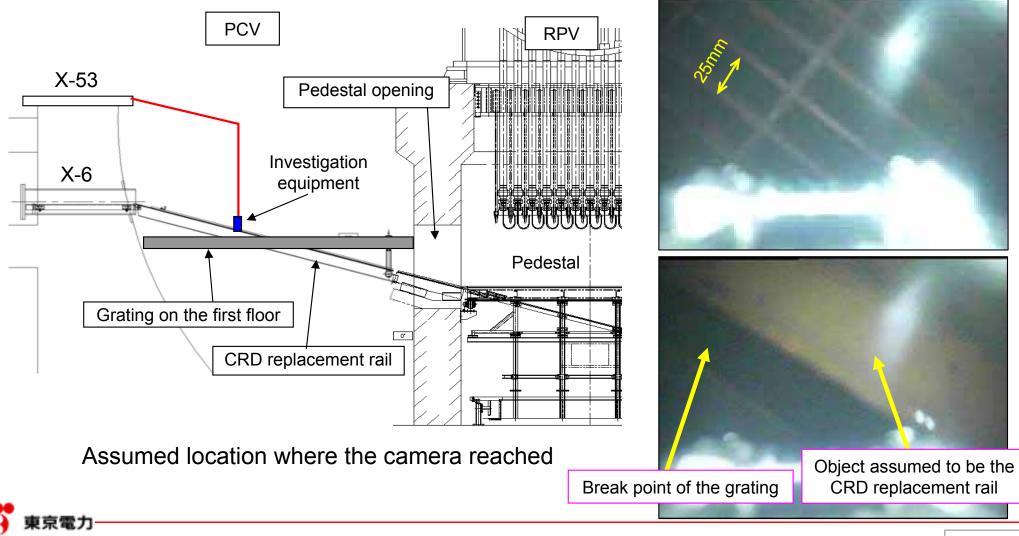
# 1. Overview of Investigation

An investigation equipment is inserted from X-53 penetration onto the CRD replacement rail to investigate the CRD replacement rail and the area around the pedestal opening.



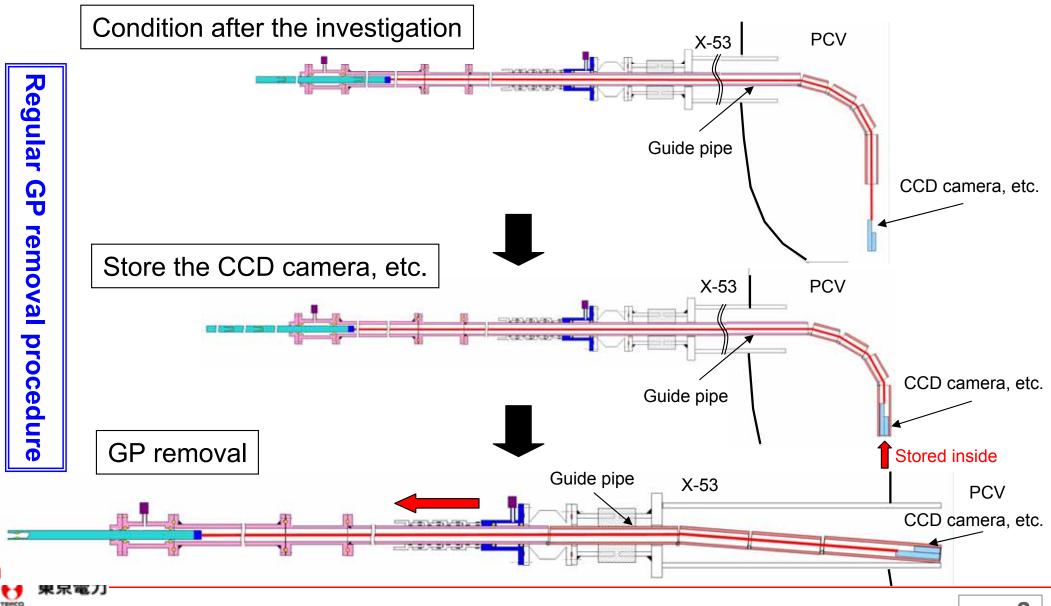
# 2. Investigation Results (Images)

The investigation was not performed as planned since the camera did not reach the CRD replacement rail. According to the video obtained, there is an object which assumed to be the CRD replacement rail in the upper right. The CRD replacement rail is assumed to be at approx. 300mm from the point where the camera was able to reach.



# **3-1.** Condition of the Guide Pipe

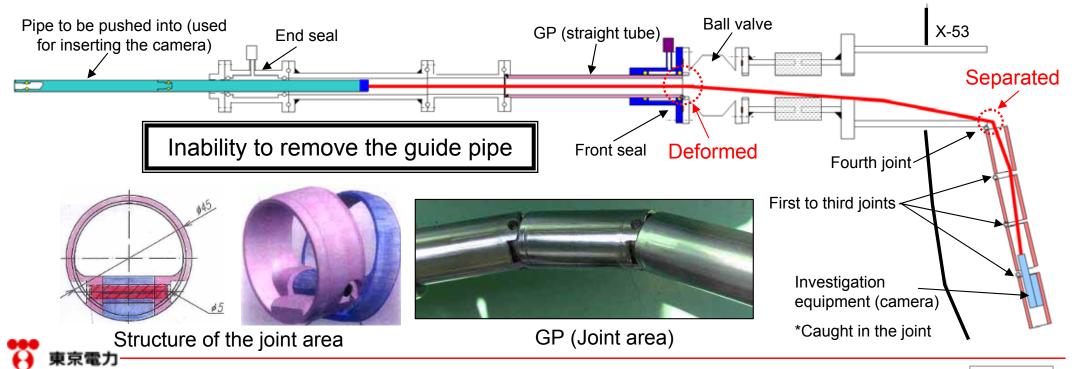
The guide pipe (GP) could not be removed after the investigation (March 19, 2013).



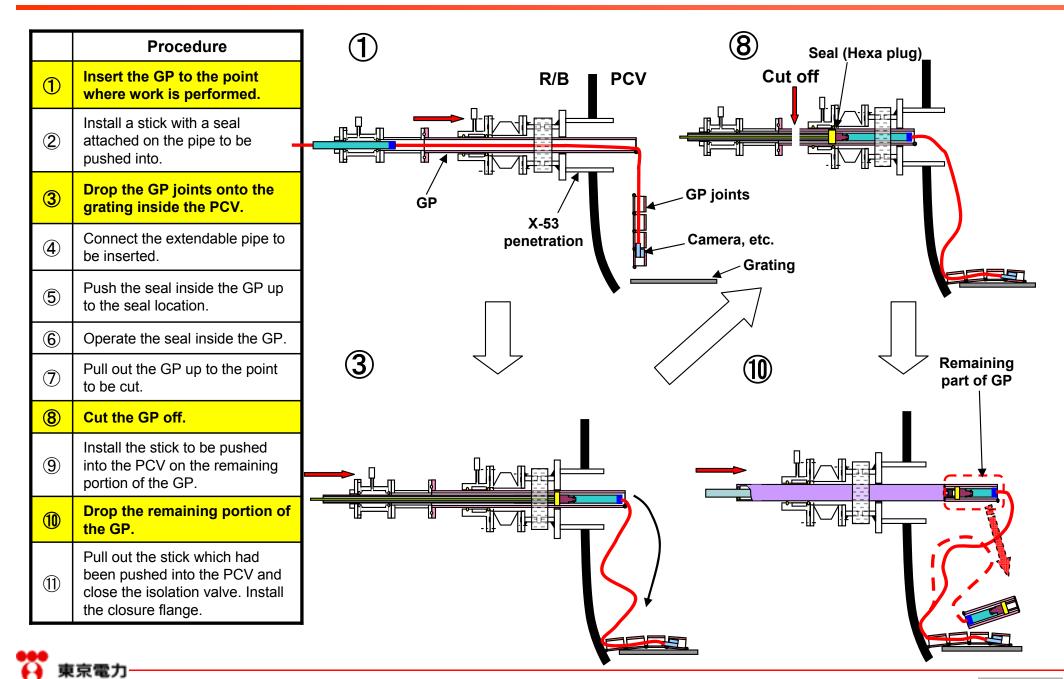
# **3-2. Condition of the Guide Pipe**

[Condition of GP] (1) The straight tube and the fourth joint were separated (the condition of the first to the third joints is unknown)→The joint area cannot be pulled into the penetration. (2) The straight tube of the GP (the fourth joint) is deformed →The deformed area interferes with the front seal and cannot be removed.

[Countermeasure] While securing the PCV boundary, insert a stick with a seal attached and (1) slowly put the joint parts into the PCV and (2) cut the straight tube of the GP and drop it into the PCV.



# 4. Guide Pipe Removal Procedure (Overview)

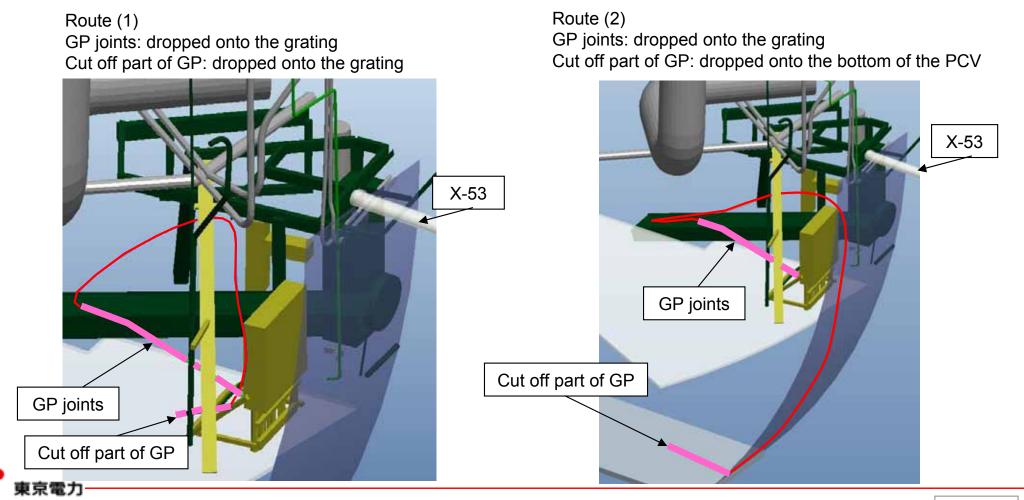


#### 5. Impact of Dropping the Guide Pipe into the PCV

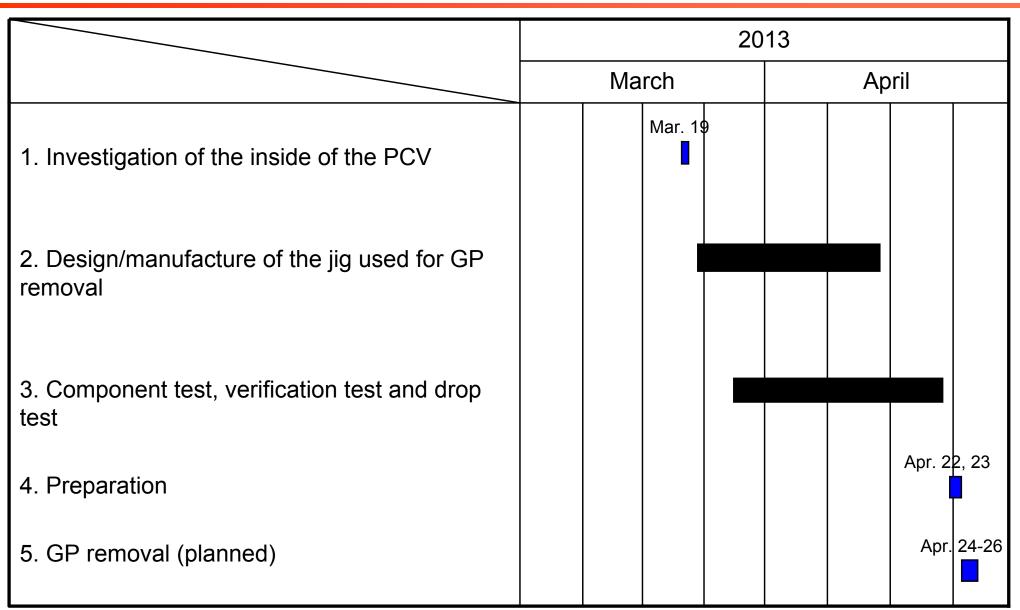
The following dropping routes (1) and (2) are assumed.

- There is no equipment used for plant cooling and status monitoring in the surrounding area of the drop route.

- The interference condition inside the PCV will be checked before the reinvestigation of the CRD rail.



## 6. Schedule



The date for PCV reinvestigation is being discussed (The investigation equipment is planned to be improved based on the results obtained this time).

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