

< Reference >

# Results of Additional Work in Soundness Inspection of Unit 2 TIP Guide Pipe

July 19, 2013

Tokyo Electric Power Company

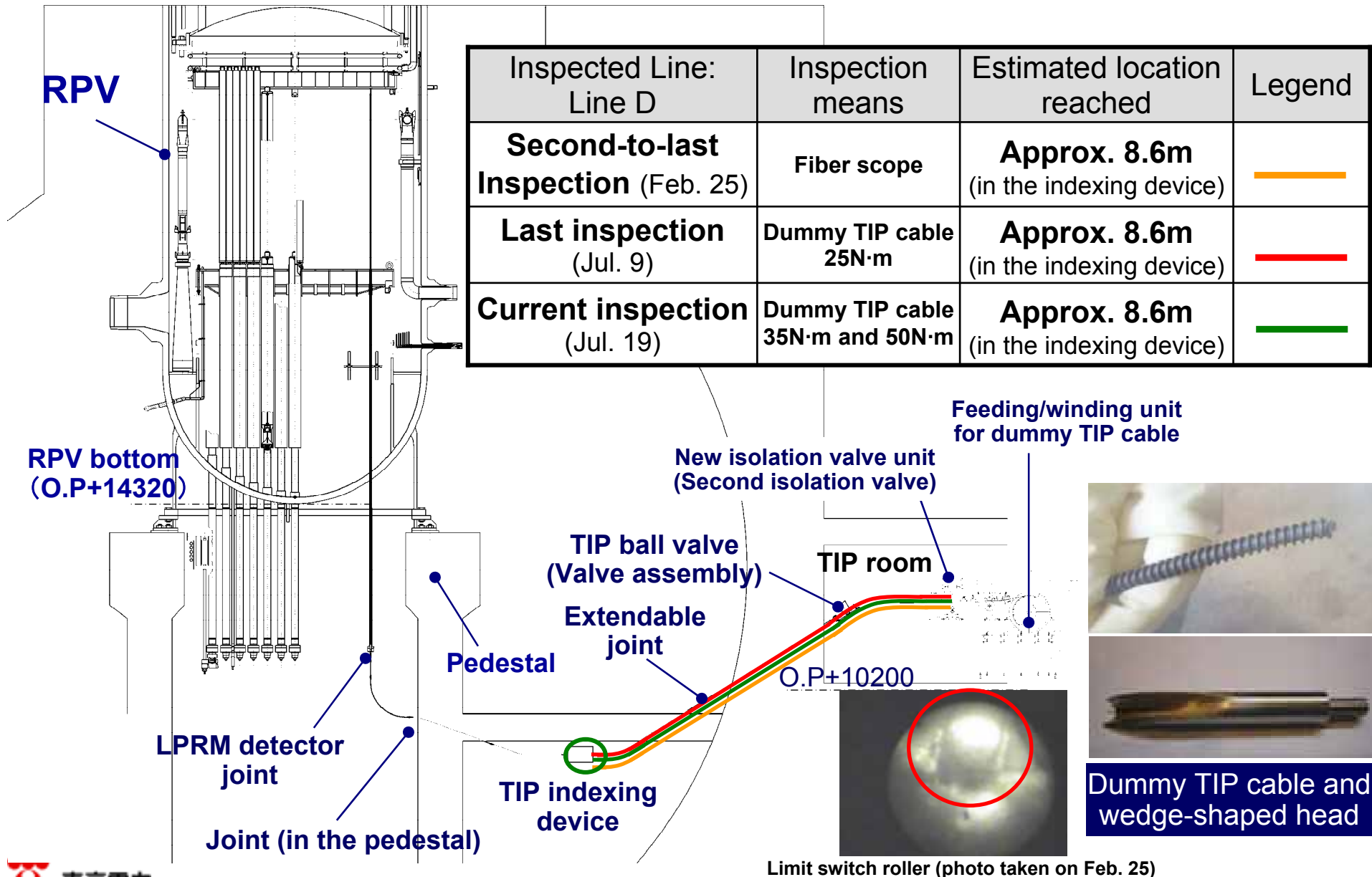


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# 1-1. Result (Location Reached)



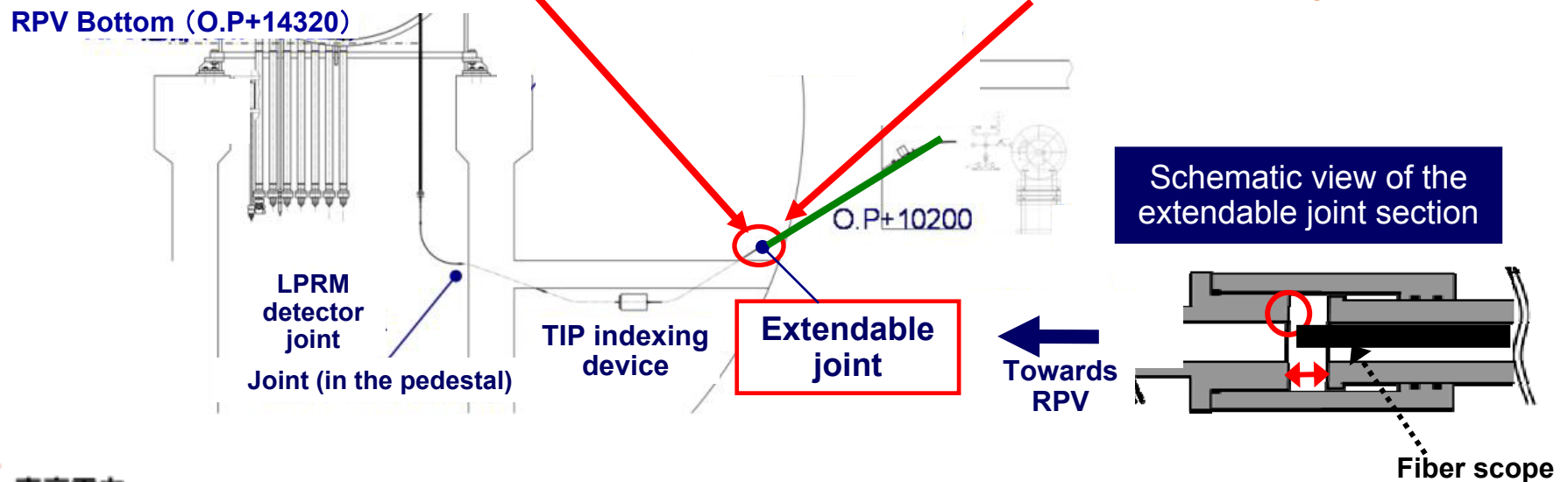
# 1-2. Conditions of the Guide Pipe Interior (Photo)



Extendable joint

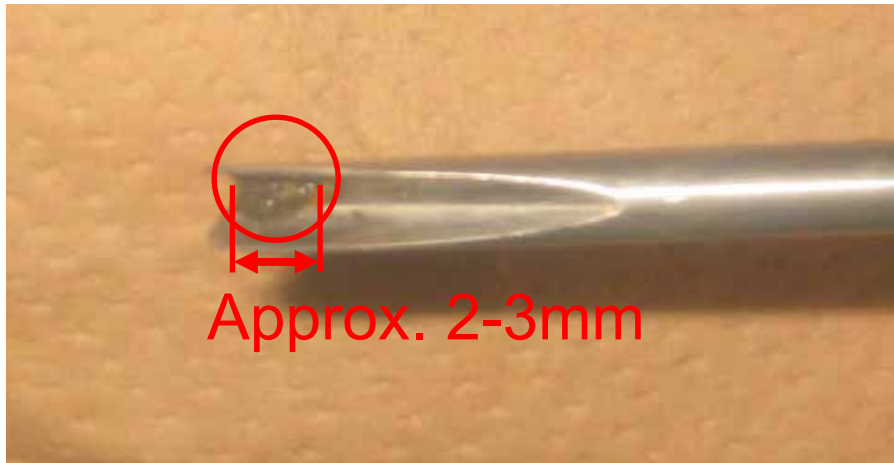


Location short of the extendable joint



# 1-3. Conditions of Attached Substances (Photo)

## ■ Dummy TIP cable head

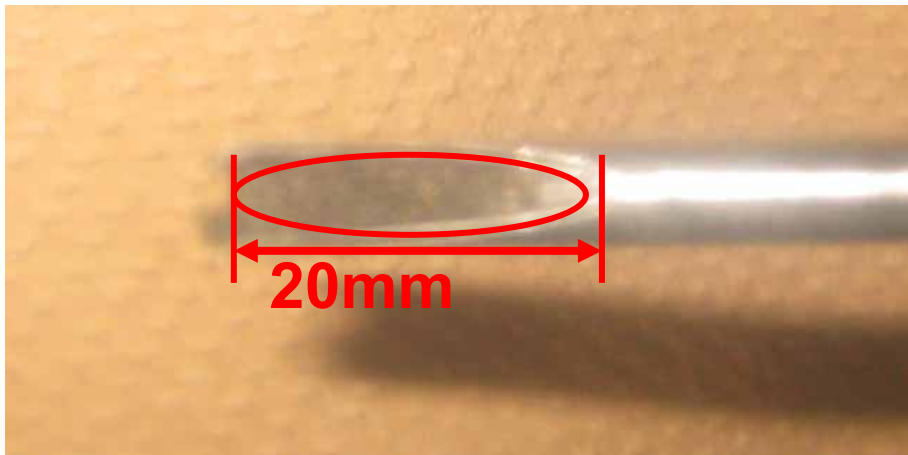


(July 9)

- After the dummy TIP cable was pulled out, attached substances were found on the head.

$\gamma$ -ray: 14.0mSv/h

$\beta$ - and  $\gamma$ -rays: 30mSv/h



(July 19)

- After the dummy TIP cable was pulled out, attached substances were found all over the head.

$\gamma$ -ray: 95.0mSv/h

$\beta$ - and  $\gamma$ -rays: 120.0mSv/h

## 2. Overall Results

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### ■ Radiation exposure received by workers

Highest dose: 1.27mSV (Planned dose: 3.00mSV)

### ■ Overall results

- The dummy TIP cable was inserted at 35N·m and 50N·m from the second isolation valve inlet flange of Line D. As in the case of the last inspection, further insertion of the cable became impossible when it reached approx. 8.6m.
- Attached substances were found all over the head of the dummy TIP cable. This made it clear that there are substances attached behind the limit switch.  
( $\gamma$ -ray: 95.0mSv/h,  $\beta$ - and  $\gamma$ -rays: 120.0mSv/h)
- We also conducted inspection using a fiber scope. However, it became impossible to further insert the fiber scope when it reached the extendable joint. Therefore, we were not able to determine the conditions of the limit switch roller.

#### [Suspected cause]

Further insertion of the fiber scope became impossible possibly because the fiber scope head came into contact with the end surface inside the extendable joint since the gap inside the extendable joint was enlarged when the dummy TIP cable was inserted earlier.

### ■ Next actions to take

As we were not able to go beyond the indexing device, we gave up inspection using the current method, and will consider our next course of action.