The current challenges and good practices in Japan

"Measure to Reduce Radiation Exposure during the RV Core Internals Replacement at Ikata Nuclear Power Station Unit-1"

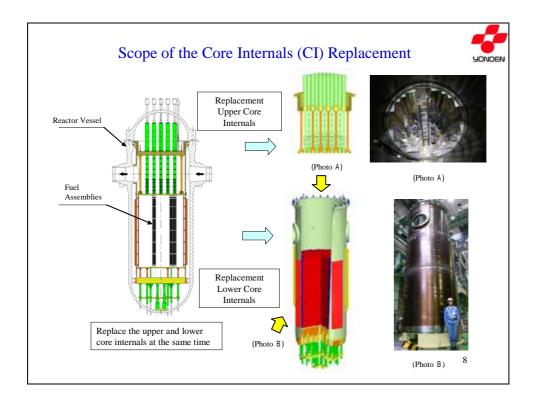
Yasuyuki Kashimoto, Shikoku Electric Power Co., Inc.

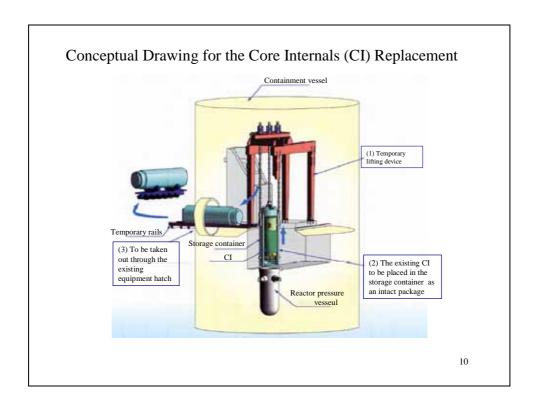


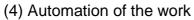
Mr. Kashimoto explained in detail about a variety of exposure reduction measures implemented in replacement of core internals of pressurized water reactor, Ikata Unit 1 as follows

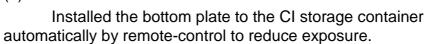
- (1)Prior work plan
- (2) Mockup training
- (3)Installation of temporary shields
- (4)Remoteness and automation of low part plate insertion work to CI storage container
- (5) Warning to worker

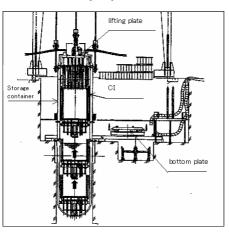
Since it was the first-ever attempt in the world to replace all internal structure collectively, a prior work plan and the exposure reduction measures were examined carefully. Exposure dose decreased greatly below the planned dose due to these measures. The replacement work of CI of Unit 2 is being performed now using their experience at Unit 1.



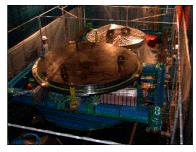








[How the bottom plate was installed]



29