

Start of Internal Investigation of the Fukushima Daiichi Nuclear Power Station Unit 2 Spent Fuel Pool (SFP)

<Reference Document>
June 10, 2020
Tokyo Electric Power Company Holdings, Inc.
Fukushima Daiichi Decontamination &
Decommissioning Engineering Company

<Overview>

- At 9:47AM on June 10, we began an internal investigation of the Unit 2 spent fuel pool. This is the first time since the disaster that an internal investigation of Unit 2 has been conducted.
- During this investigation, we examined the condition of fuel, the area above the fuel rack, the pool gate and the surge tank inlet using a submersible Remotely Operated Vehicle (ROV). At current time, we have not encountered any circumstances that have the potential to interfere with fuel removal, such as damage to the fuel rack or fuel handles. However, we will carefully examine the photos that were taken.
- We shall continue to conduct this investigation while prioritizing safety, and we shall reflect the results in the design of fuel handling machine, and the other equipment, as we aim to commence fuel removal from the Unit 2 SFP between FY2024 and FY2026.
- In order to improve technical skill, employees engaged in this investigation underwent submersible ROV training on a mockup at the Fukushima Robot Test Field (Minami-Soma City).



【Submersible ROV used for the investigation】



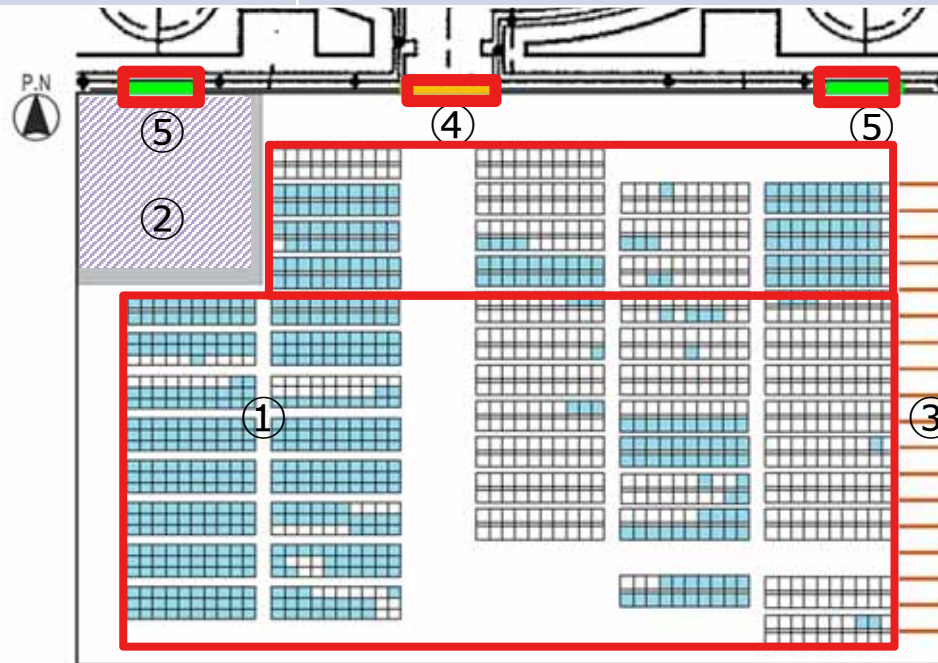
【Fuel and area above the fuel rack in the SFP】



【Pool gate in the SFP】

<Reference> SFP investigation focus

Investigation targets	Investigation focus
① Fuel, and area above the fuel rack	<ul style="list-style-type: none"> Check for fuel deformation and obstructions in the area above the fuel rack
② Cask pit	<ul style="list-style-type: none"> Check for obstructions at the bottom of the cask pit and the deformation of cask pit beams
③ Control rods	<ul style="list-style-type: none"> Check for fallen control rods and control rod hanger deformation
④ Pool gate	<ul style="list-style-type: none"> Check for deformation of the pool gate and the condition of the bolts that hold the pool gate
⑤ Skimmer surge tank inlet	<ul style="list-style-type: none"> Check for deformation of the movable weir inlet and confirm that locking bolts have not come off



Location of investigation targets in the SFP

<Targets of the investigation>

■ :① Fuel, fuel rack
 (□:Indicates racks without fuel)

▨ :② Cask pit

≡ :③ Control rods, control rod hanger

■ :④Pool gate

■ :⑤Skimmer surge tank inlet

□ : Investigated on June 10