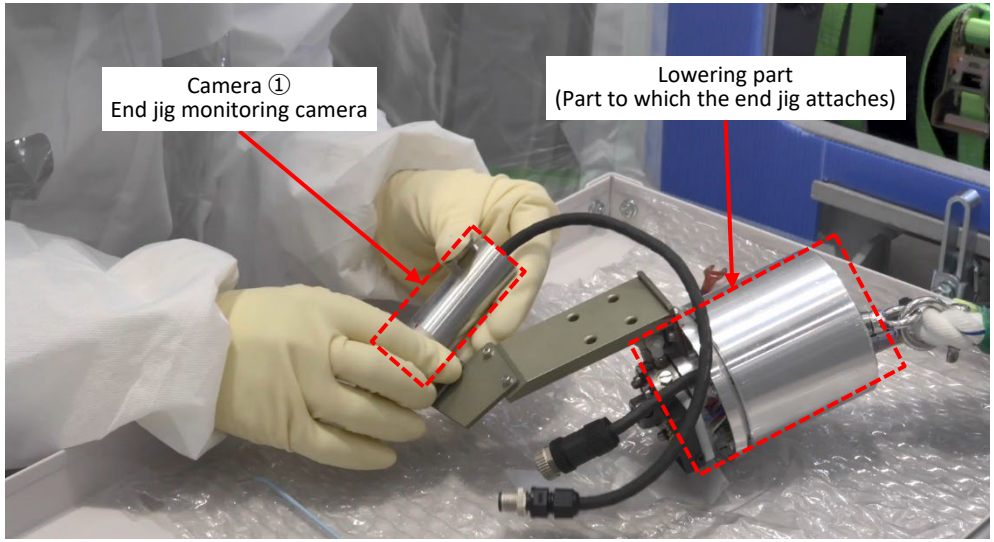
Fukushima Daiichi Nuclear Power Station

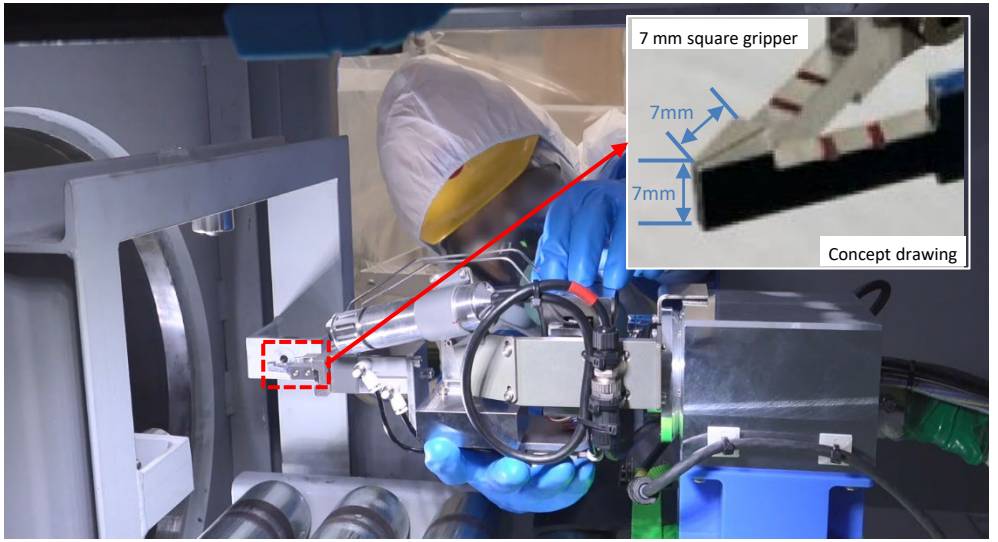
Replacing the Cameras/End Jig in Preparation for the Second Fuel Debris Trial Retrieval from Unit 2

＜Reference document＞
April 3, 2025
Tokyo Electric Power Company Holdings, Inc.
Fukushima Daiichi Decontamination & Decommissioning Engineering Company

- Trainings for workers on such as connecting push pipes inside the Unit 2 reactor building were implemented between March 25 and March 31.
- Since April 1, environment preparations (startup of localized ventilation equipment, etc.) and the construction of a work house have been underway in preparation to replace the cameras/end jig.
- Now that preparations to replace the cameras/end jig have been completed, approximately two weeks will be taken starting on April 4 to replace the cameras on the telescopic device (① end jig monitoring camera, ② camera on the end of the arm) and also replace the end jig with an improved model.
- Furthermore, for this second attempt of fuel debris trial retrieval, the size of the gripper, which is used to judge the size of the fuel debris being sampled, will be changed from 5 mm square to 7 mm square in light of the achievements of the previous attempt.
- Details on when exactly the next fuel debris trial retrieval will commence will be announced at a later date.



Camera replacement



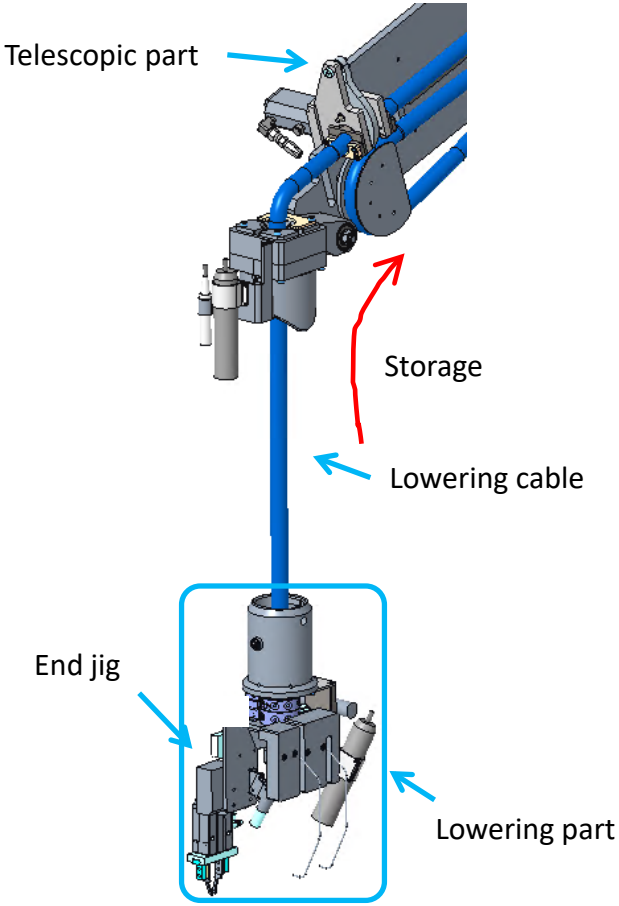
End jig replacement

Training on replacing cameras and the end jig
(Location: Mitsubishi Heavy Industries, Ltd. Kobe Factory)

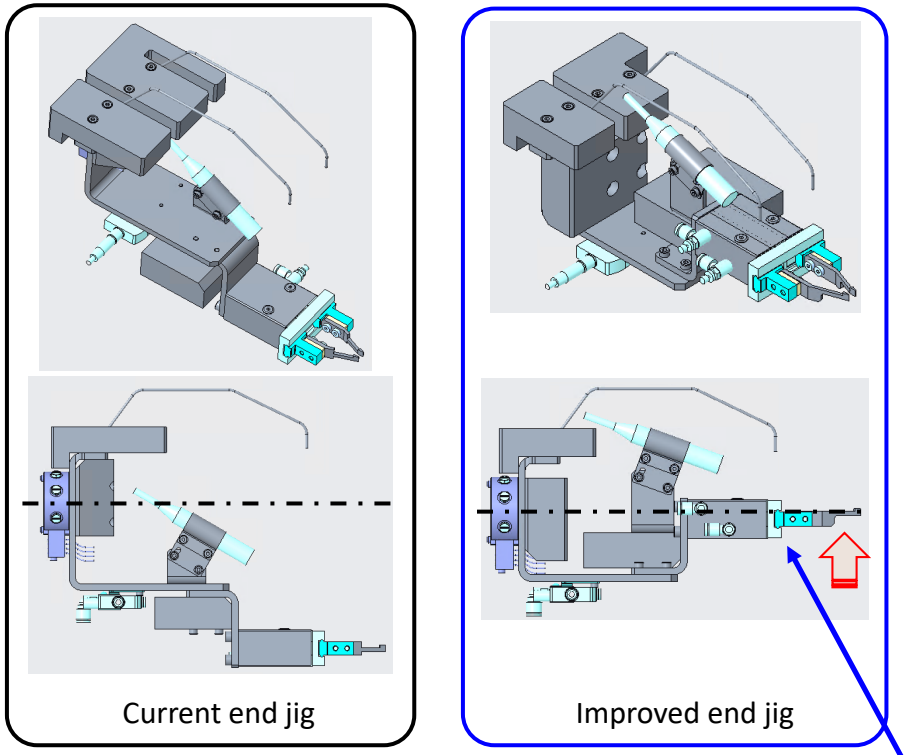
※ All photos taken on March 18, 2025

Additional Debris Sampling with the Telescopic Fuel Debris Trial Retrieval Device

- During the first fuel debris sampling, time was required to maneuver the end jig because the lowering part was not stable. So we are deliberating how to improve the maneuverability of the end jig before sampling additional fuel debris.



End jig components



Concept diagram of end jig improvements

Stability has been improved by moving the location of the gripper to the center of rotation of the end jig