2020 IAEA General Conference, Side Event

Fukushima Daiichi Decontamination and Decommissioning -From 3.11 toward the future-

September 21, 2020 Akira ONO

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The New Norm at Fukushima Daiichi



No face-to-face sitting at Cafeteria

Thermographic measurement at entrance

All employees wearing masks

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Fuel Removal from Spent Fuel Pools Toward Fuel Debris Retrieval Striking a Balance between Reconstruction & Decommissioning



Dismantlement of Exhaust Stack for Units 1&2



Before Dismantlement (July 2019)



After Dismantlement (May 2020)



HV317

1. Fuel Removal from Spent Fuel Pools

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Overview of tasks toward fuel removal TEPCO Unit 4 **Units 1 & 2** Unit 3 $\overline{}$ **Removal of rubble & Installation of Storage & Fuel removal Decontamination etc.** fuel removal facility **Transportation** Unit 2 Unit 1 Unit 3 Removal to Removal to start in start in Removal started FY2024 to 2026 in Apr. 2019 FY2027 to 2028 Jun. 2011 Sep. 2011 **Front chamber** eb. 2019 Aug. 20

Method of fuel removal at Units 1 & 2

TEPCO

As the return of local residents and reconstruction efforts make progress, we put premium on their safety and peace of mind by preventing radioactive dust from scattering.



2. Toward Fuel Debris Retrieval

IRID has contributed to some work shown here



Assumed distribution of fuel debris

Analysis of accident Robotic exploration Muon Survey progression Unit 1 Unit 2 Unit 3 PC RP Core Feb. 2017 Jan. 2018 **Jul. 2017**

Experimental retrieval to start at Unit 2 in 2021

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TEPCO Step by step approach to be taken for fuel retrieval at Unit 2

Step by step approach will be implemented, first with experimental retrieval followed by its review, then with stepwise expansion of the retrieval scale.



PCV

1Robot arm

3. Striking a Balance between Reconstruction & Decommissioning



