

PADIRAC Project for Fukushima Sample Extraction

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Abstract

Fukushima TEPCO has to do intakes samples from the heart of the reactor.

The aim is to understand how address the dismantling. It is the 1st sampling campaign.

Mitsubishi Heavy Industries (MHI) is the 1st subcontractor of TEPCO, and architect of all of the intakes sample project.

In the frame of the project a PADIRAC cask will be docked to a container, this last being himself accosted to the reactor.

Samples are introduced into the PADIRAC then the cask is conveyed remotely to a cell with considered DPTE@Alpha 270.

This cell is built beside the clean area, it is dedicated to manage the samples.

CLEO is a French company (located in Marcoule area) is in charge of the design and delivery of a tele operated system that is destined to dock/undock and convey the PADIRAC from the clean area to the reactor core and back.

It is a complex specific development, which will implement built-in cameras and cable remote controls. This cable is required for the robustness of the bindings and maintenance of the mechanical connection with the cold side.

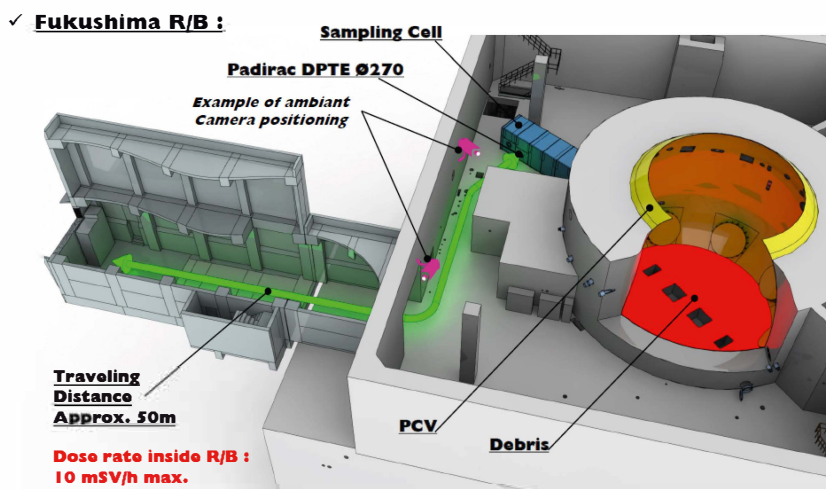


Figure 1 : General view



Figure 2 : Remotely operated PADIRAC