

Research and Development of the Project of Decommissioning, Contaminated Water and Treated Water Management and Connection to Engineering

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Abstract

The Ministry of Economy, Trade and Industry (as “METI”) has established the fund since FY 2013 and implemented the “Project of Decommissioning, Contaminated Water and Treated Water Management” as the subsidy program by solicitations to support R&Ds with high technical difficulties. In this presentation, it shall be introduced the connections among the various subsidized projects within this program and the expected contributions to the decommissioning of the Fukushima Daiichi Nuclear Power Station.

1. Introduction

In order for the decommissioning of the Fukushima Daiichi NPS safely and steadily, it is important to conduct R&Ds by gathering wisdom in Japan and overseas. Therefore, METI has established the fund since FY 2013 and implemented the “Project of Decommissioning, Contaminated Water and Treated Water Management” as the subsidy program by solicitations to support R&Ds with high technical difficulties. The R&D projects have been managed by the Management Office for the Project of Decommissioning, Contaminated Water and Treated Water Management. In order for the results of the R&Ds to contribute to the decommissioning of the Fukushima Daiichi NPS, the R&Ds are conducted in cooperation with TEPCO, which manages the site and considers the applicability.

2. Subsidized Projects of Decommissioning, Contaminated Water and Treated Water Management and Connection to Engineering

The R&D projects for the decommissioning of the Fukushima Daiichi NPS have been subdivided and subsidized. Each subsidized project is being conducted by domestic and foreign organizations. The subsidized projects are classified into “Internal Investigation”, “Development of Fuel Debris Retrieval Method”, “Improvement of Work Environment”, and “Processing of Solid Waste, etc.”. The current projects are closely related to each other and connected to engineering and the engineering has been utilizing wisdom in Japan and overseas. Also, to obtain the information on R&Ds from organizations in Japan and overseas, PMO conducts RFI (Request for Information) every spring on the website. ^[1] (<https://en.dccc-program.jp/>)

R&Ds of Decommissioning, Contaminated Water and Treated Water Management Program (supported by PMO)

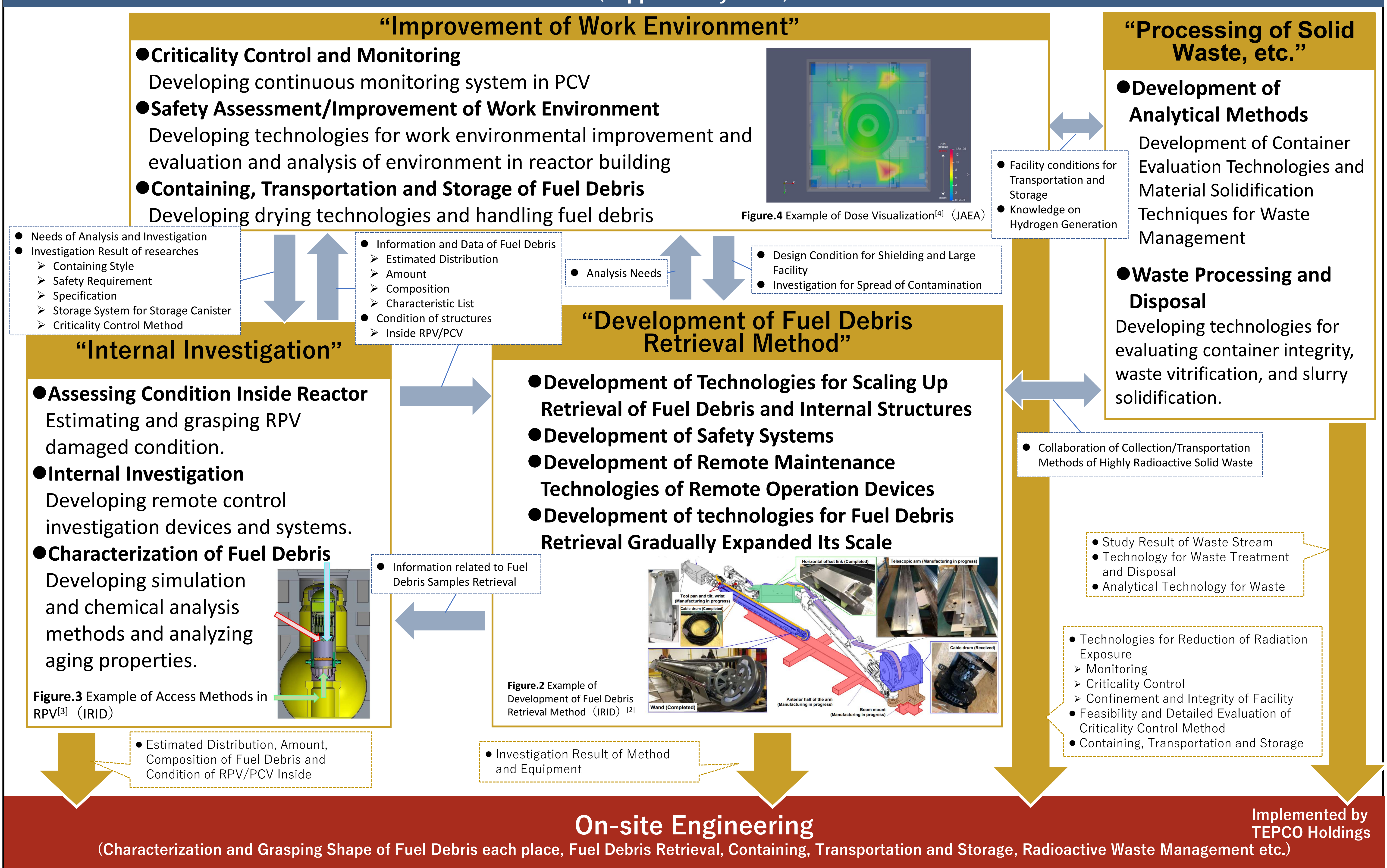


Figure.1 R&Ds of Decommissioning, Contaminated Water and Treated Water Management Program and Connection to Engineering

* This figure is summarized by MRI in the light of the project objective.

[Reference] [1] Management Office for the Project of Decommissioning, Contaminated Water and Treated Water Management, <https://en.dccc-program.jp/>

[2] Development of Technology for Gradually Increasing the Scale of Fuel Debris Retrieval Accomplishment Report for FY2021,IRID

[3] Development of Investigation Technology for inside the Reactor Pressure Vessel (RPV) (Upgrading of Processing Technology for the Top-Access Investigation Method and Development of the Bottom Access Investigation Method) FY2022 Final Report,IRID

[4]令和3年度開始 廃炉・汚染水対策事業費補助金（原子炉建屋内の環境改善のための技術の開発(被ばく低減のための環境・線源分布のデジタル化技術の開発)に係る補助事業、JAEA