

International Conference on Radioactive Waste Management: Solutions for a Sustainable Future (CN-294)



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Current Status of Solid Waste Management on Fukushima Daiichi Nuclear Power Station

Ten years have passed since the Fukushima accident occurred. TEPCO is undertaking decommissioning of Fukushima Daiichi Nuclear Power Station (NPS) steadily and safely, incorporating domestic and international expertise, to fulfill its responsibility for the March 11, 2011 accident.

From all of the decommissioning works, various types of solid waste have been generated. These volume are about 475,000m³ on February 2021.

We have continuously improved waste management manner. For example, incinerator for burnable waste was built and started operation on March 2016. Waste storage facility No.9 which can store the solid waste about 33,600 m³ was built and started operation on February 2018. However, most of the waste is still stored on outside temporary storage area.

“Mid-and-Long-Term Roadmap towards the Decommissioning of TEPCO’s Fukushima Daiichi Nuclear Power Station Units 1 to 4” which is published by Inter-Ministerial Council (December 2019) shows the milestone (main target processes) for solid waste management on site. The milestone is as follows:

FY2028, TEPCO will eliminate temporary storage area outside for all solid waste (fallen tree, rubble and others, soil, used protective clothing and others) except for secondary waste from water treatment and waste to be used for reuse/recycle, in order to lessen the workers’ risk such as radiation dose risk.

TEPCO predict solid waste generation over the next 10 years based on the planned decommissioning activities every year. According to the latest prediction (July 2020), waste volume generated from decommissioning works will reach about 784,000 m³ on March 2032.

Based on this prediction, we release the Waste Management Plan which showed how to improve waste management manner and to achieve the milestones on Mid-and-Long-Term Roadmap. The overview of this plan is to reduce the waste volume as much as possible and to store the waste inside the buildings.

According to the plan, the other incinerator is under construction. This facility is scheduled to start operation with in FY2021. And also we have designed other storage facilities and the volume reduction treatment facility. We have a plan to achieve milestone by utilizing these facilities.

Do you wish to participate as a Young Professional?

Speaker’s title

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Do you wish to be considered for a Young Professional grant?

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