

# **New radiological control of areas in Fukushima Daiichi NPS**

Katsuhiro Yasui

*Tokyo Electric Power Company Holdings, Inc.*

*Email: yasui.katsuhiro@tepcoco.jp*

Fukushima Daiichi Nuclear Power Station (1F) was hit by the big earthquake and tsunami, which caused the station black out and subsequent loss of cooling functions for reactor and spent fuel pools (SFPs). Consequently the fuels were damaged, hydrogen explosion blew off top of the reactor buildings and radioactive materials were released to the atmosphere and the ocean. It caused soil contamination at 1F site areas, so we had to wear coveralls and respirators when leaving the seismic isolated building to engage in work.

We have decontaminated the 1F site areas through asphalt paving, surface soil stripping, soil flipping, etc.

In order to keep 1F site areas that have been decontaminated clean and reduce the protective gear burden on workers (coveralls → work clothes), the spreading of contamination from highly contaminated areas, such as inside the Unit 1-4 buildings and the tank dismantling area must be prevented. For example, the contaminated areas must be demarcated, and the contamination of the workers, the tools, and the cars moved from the contaminated areas must be controlled.

We have changed the policy of radiological control of areas, which enables demarcation of contaminated areas and contamination control. I'll show the approach for demarcation and contamination control.