A water droplet found at the batch treatment tank 2A of
multi-nuclide removal equipment (ALPS) in Fukushima
Daiichi Nuclear Power Station

<Reference> June 17, 2013 Tokyo Electric Power Company

Overview of the in June 15	cident:
Around 11:00 PM	A TEPCO employee found a trace of discolored water in the leaked water receiving pan under the batch treatment tank (2A) of multi- nuclide removal equipment (ALPS). No new water droplet has been found as of now. As we checked surroundings, dew condensation water was attached on the surface of the batch treatment tank, and partially discolored part was found near the welding line. Therefore, we have placed a container to receive the water droplet just in case.
June 16	No other occurrence of dew condensation water or discolored water droplet has been found upon condition monitoring. Since the cause of the discoloration near the welding line on the surface of the tank is estimated to be rust or a leakage, we have judged that detailed investigation is needed.
Around 3:00 PM	The incident was reported to the safety inspector.
Around 4:00 PM	Survey of the discolored part near the welding line and surface of the tank was performed.
6:17 PM	An operation to stop A system at multi-nuclide removal equipment (ALPS) was started.
11:20 PM	A system at multi-nuclide removal equipment (ALPS) was stopped.

Cause of the incident: Under investigation

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## Condition at the Site



Structural drawing of the batch treatment tank

> Trace of discolored water droplet was found

**Discolored (brown) part near the** welding line was found



(1) Condition at the bottom part of the tank

(2) Condition of the leaked water receiving pan \* Background: 180cpm

(1) Condition at the bottom part of the tank (enlarged image)

- Measurement results
- Surface of the batch treatment tank (discolored part near the welding line): 7,900cpm
- Surface of the batch treatment tank (part not discolored near the welding line): 700cpm
- Leaked water receiving pan under the tank (part having trace of discolored water): 4,300cpm
- Leaked water receiving pan under the tank (part not discolored): 1,300cpm



## Entire System of Multi-nuclide Removal Equipment (ALPS)



TEPCO