

Overflow of a mixture of absorbent materials and filtrate water from HIC in the Multi-nuclide removal equipment (“ALPS”) and alarm generation by leakage in the skid of Cross flow filter A

<Reference>
Apr.16, 2014
Tokyo Electric Power Company

<Outlines>

Date and time: Discovered at around 0:19 PM, April 16.

Stopped the operation at 1:24 PM on the same day.

Site: Inside a temporary warehouse of the ALPS building (HIC installed area)

Persons who discovered: Workers

Range of overflowed: Approx. 8 m X approx. 9 m X approx. 10 m in depth. (within the dike of the temporary warehouse)

Water overflowed: Estimated to be a mixture of absorbent materials and filtrate water.

Work description: An operation from injecting filtrate water into the HIC for Absorbent 2 from the absorption tower located on the ALPS side through sending away absorbent materials.

Occurrence status: Workers discovered an overflow from HIC (High Integrity Container) at ALPS. It is estimated that a mixture of absorbent materials and filtrate water has overflowed from HIC during the operation of sending away absorbent materials by injecting filtrate water into the HIC for Absorbent 2 from the absorption tower located on the ALPS side.

Later, with stopping the operation of temporary transfer pumps, overflowing was confirmed to be stopped.

It is noted that no abnormalities have been identified such as damages to facilities or if the workers are contaminated, or no significant changes have been found in monitoring posts or the instructions for dust monitoring.

In addition, an alarm was generated at around 0:36 PM on the same day, warning “Leakage in the catch-basin (*2) near by A Skid 2 of Cross flow filter (*1)” in ALPS. Currently the relation between the said warning and the overflow is under study.

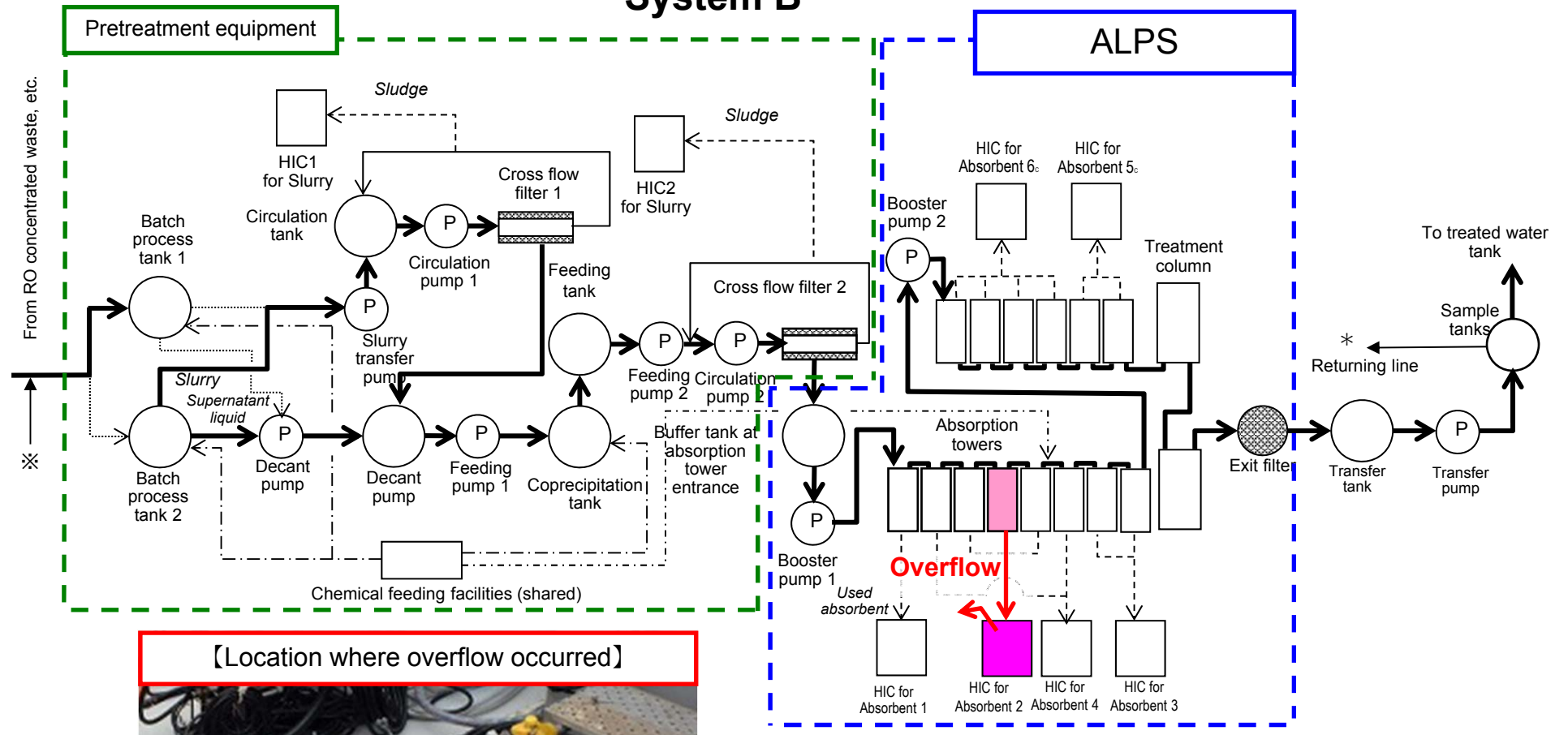
Atmosphere dose: Surface dose rate	70 μ m dose equivalent rate (β dose)	0.2 mSv/h
	1 cm dose equivalent rate (γ dose)	0.008 mSv/h
Atmosphere dose rate	70 μ m dose equivalent rate (β dose)	0.3 mSv/h
	1 cm dose equivalent rate (γ dose)	0.03mSv/her

*1: Filter which removes carbonate of ion inhibiting strontium absorption at the absorption tower in the back row .

*2: Equipment to collect water overflowed.

<System layout>

System B



【Location where overflow occurred】



Photo taken on April 16, 2014, by TEPCO