

Results of Full Check of the Bolt Fastening Tanks at Fukushima Daiichi Nuclear Power Station

<Reference>
August 22, 2013
Tokyo Electric Power Company

<Overview>

● In reaction to the water leakage from the drain valve of the tank dike at H4 area, full check (visual inspection, dose measurement) of the tanks in areas other than H4 area was performed from 11:00 AM to 3:00 PM today (on August 22). As a result, neither leakage nor paddle was observed at the outside of the tanks and drain valves.

● However, at around 2:00 PM today (on August 22), 2 locations with partially high dose were found around tank in H3 area. Both locations were dried, and no outflow to the inside and the outside of the dike was found.

[Measurement results of surface dose equivalent rate of 2 locations] ($\gamma + \beta$ ray (dose equivalent rate measured within $70 \mu\text{m}$))

- Near flange at the bottom of tank No.4 at group B in H3 area: 100mSv/h
- Near flange at the bottom of tank No.10 at group A in H3 area: 70mSv/h

● Later, we checked the water levels of 2 tanks mentioned above, and found that there is no change compared to the initial water levels.

- Tank No.4 at group B in H3 area: Water level 97%
- Tank No.10 at group A in H3 area: Water level 95%

Purpose of Patrol and Inspection Items

1. Purpose

Existence of bolt fastening tanks, which needs emergency response, was investigated in a short period in order to prevent a further leak to the outside of the dike.

* Contents and date of detailed inspection will be considered.

2. Inspection items

<Confirmation of leakage> Dose measurement: $\beta + \gamma$ ray (one significant digit) was recorded.

- Dose measurement on the ground of drain valve at the dike of tank area circumference

All tanks were measured.

Place which locates 50cm horizontally and 50cm in height above ground from the drain valve at the edge of tank circumference was measured.

- Circumference of each tank

Place which locates within 1m from the tank surface and 50cm in height above ground was measured.

All circumference were measured, and result exceeded 10mSv / hour was recorded.

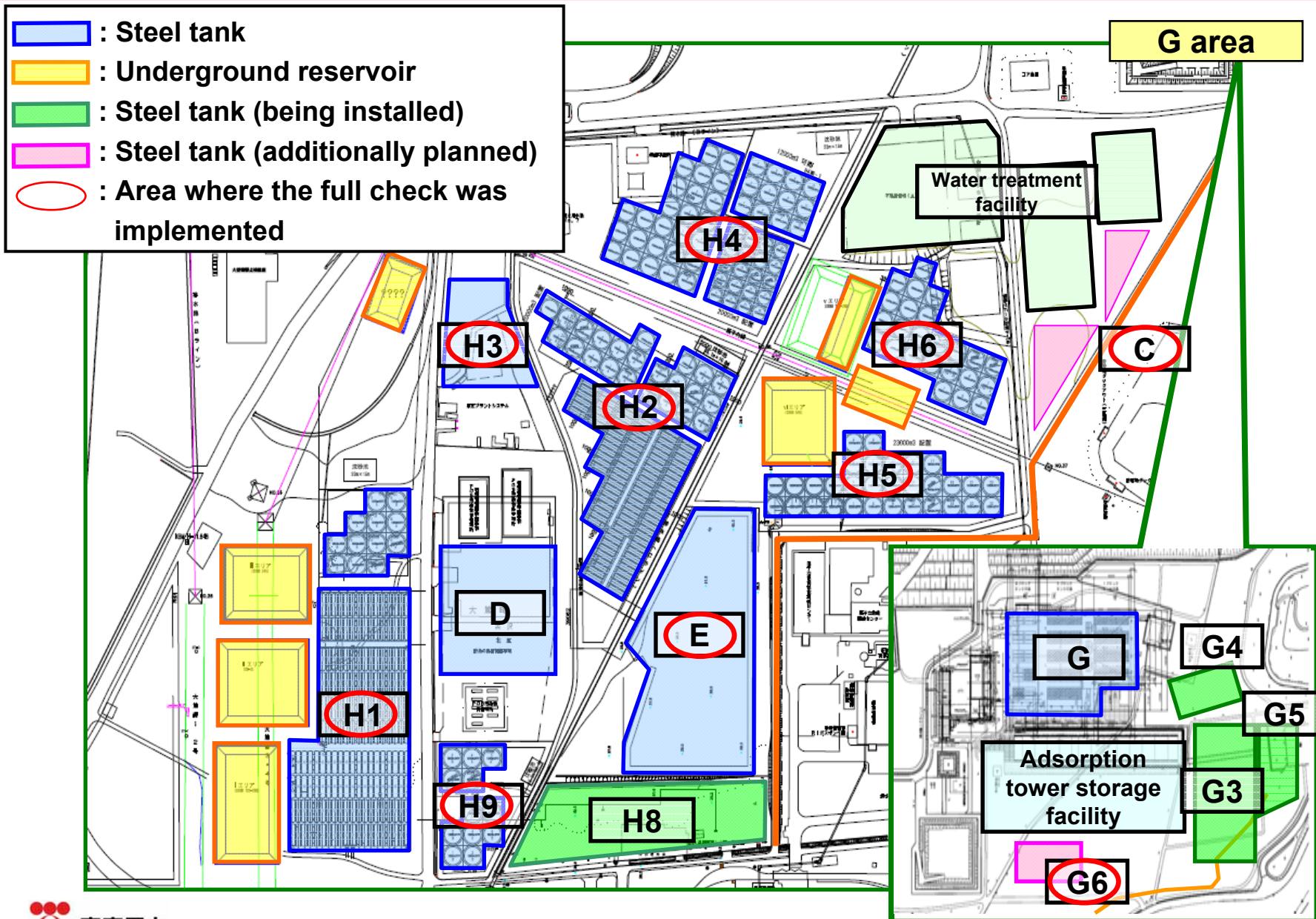
→In this case, dose on the ground (approx. 5cm above) was also recorded.

<Soundness of the dike of tank area circumference>

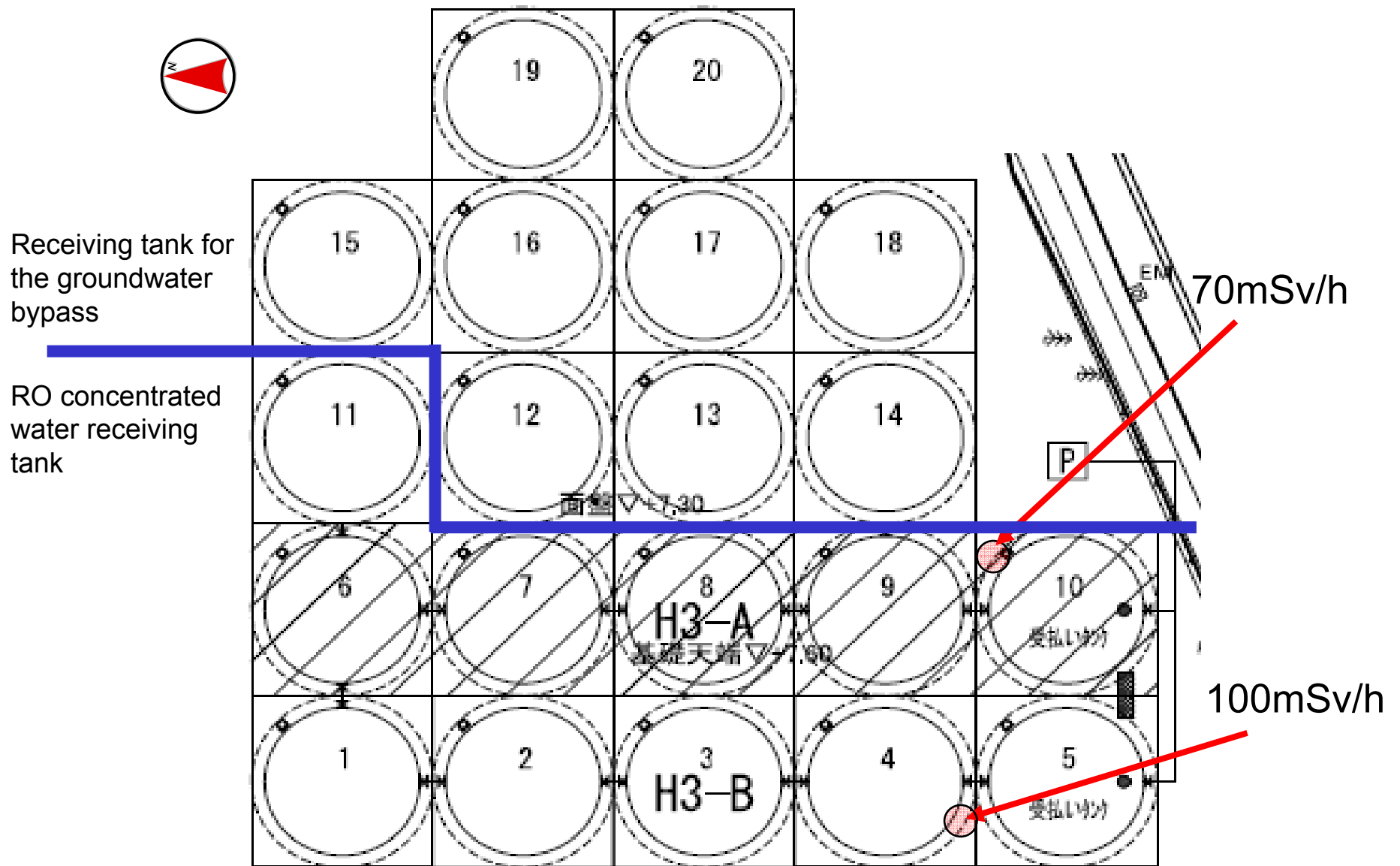
- Existence of large-sized crack* (penetration, etc.) at the dike of tank area circumference

* Dose on the ground near the crack was also measured.

Positions of Tank Areas and Drainage Channel



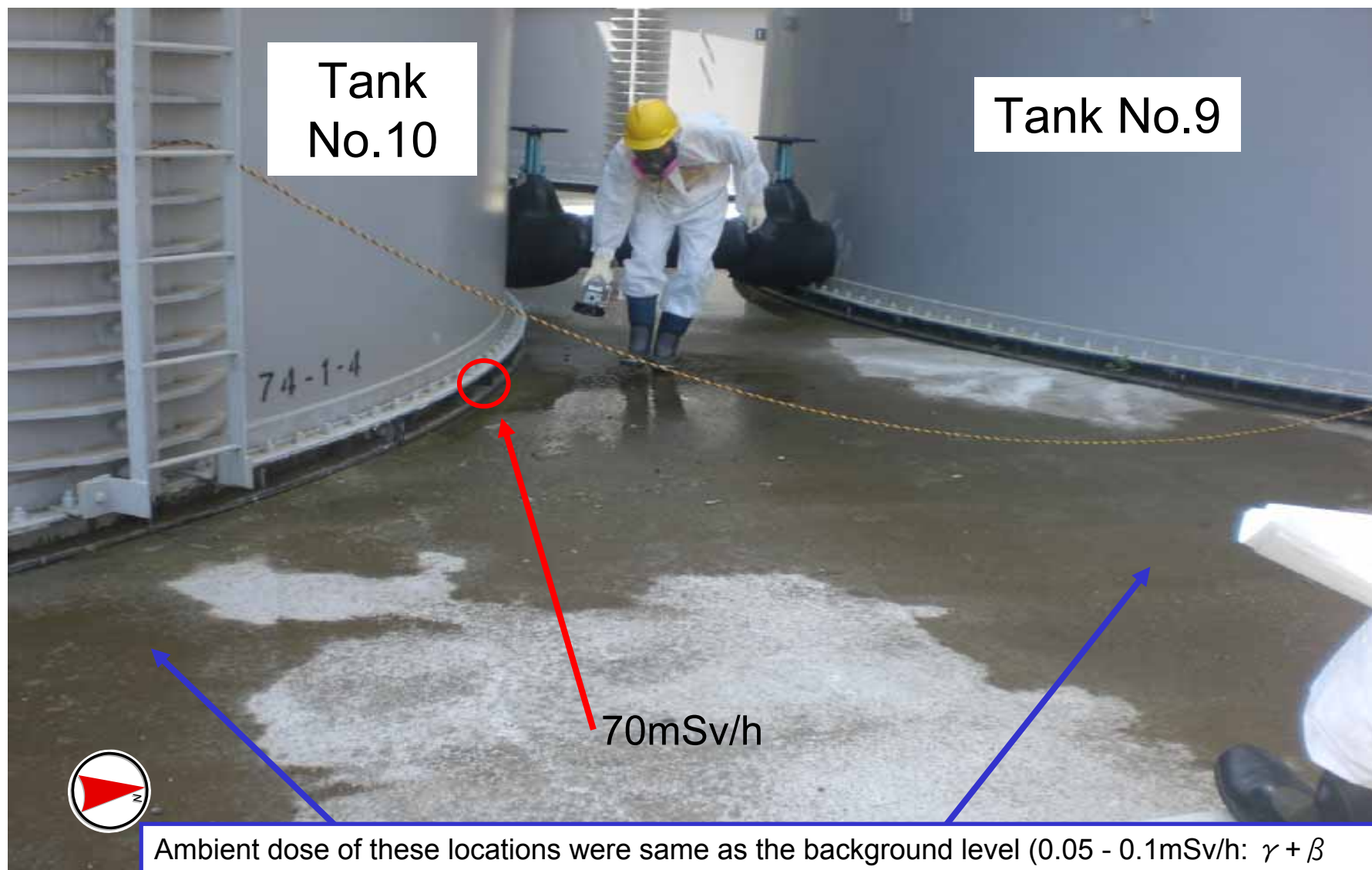
Installation Condition of the Tanks



Condition Near Flange at the Bottom of Tank No.4 at Group B in H3 Area



Condition Near Flange at the Bottom of Tank No.10 at Group A in H3 Area



Ambient dose of these locations were same as the background level (0.05 - 0.1mSv/h: $\gamma + \beta$ ray (dose equivalent rate measured within 70 μ m)), so they are considered to be rainwater.