

Fukushima Daiichi Nuclear Power Station

Dismantling of the J8/J9 area tanks

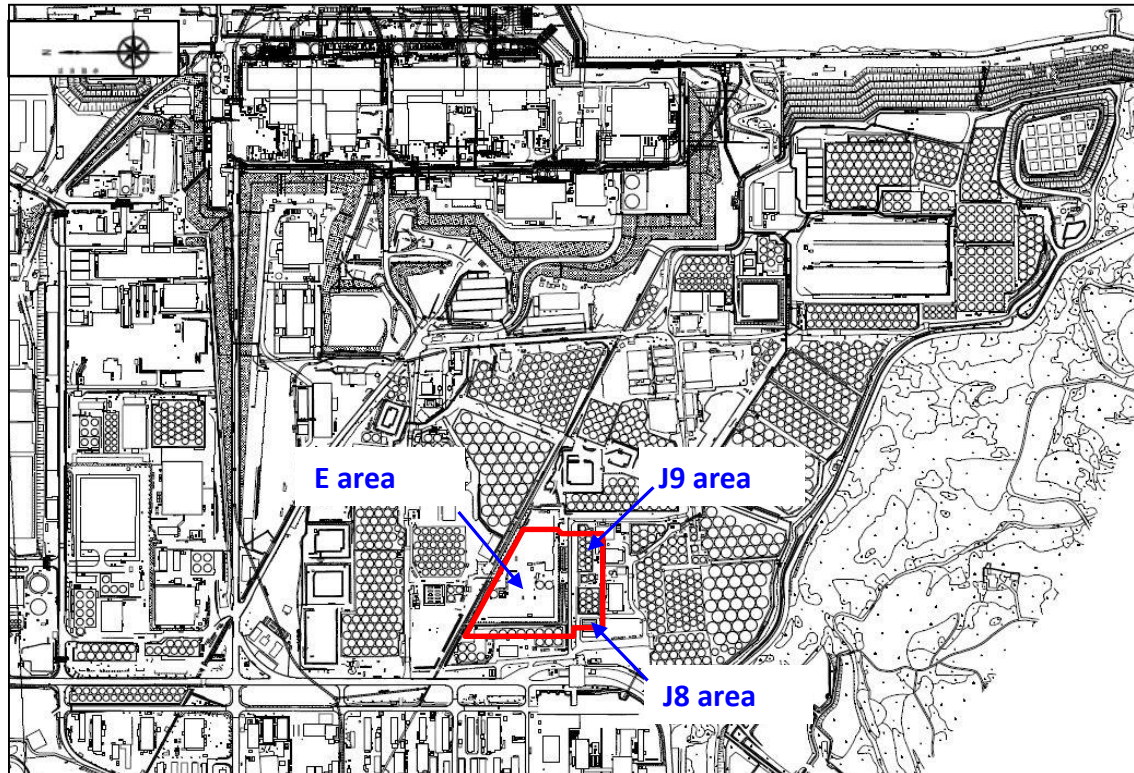
- TEPCO is currently dismantling the flanged tanks in E area in order to make space to construct facilities for retrieving fuel debris from Unit 2, and we also plan to build facilities to retrieve fuel debris from Unit 3 in the J8/J9 areas near E area (refer to slide 2).
- The dismantling will start with the tanks in the J9 area which will be emptied first in conjunction with the discharge of ALPS treated water into the sea. Preparations, such as treating the residual water in the J9 area tanks and removing obstructions in the vicinity, etc., began in July 2024.
- Since the J8/J9 area tank dismantling implementation plan was approved on February 3, 2025, we have commenced the dismantling of welded tanks (Dismantling period: Second half of FY2024~end of FY2025).
- Furthermore, since the J8 area tanks are being used to store treated water to be re-purified, this water needs to be transferred to another tank group that has been emptied, so dismantling will commence after this water has been transferred.

<Announced as of February 4,2025>

- Preparations to commence the dismantling of the J9 area tanks had been completed so we hereby announce the dismantling method and the dismantling schedule.
- The J9 area tanks had been used to store ALPS treated water and dose measurements have confirmed that radiation levels inside all of the J9 area tanks are equal to background levels *.
- Dismantling of the J9 area tanks will commence on February 13, 2025 at the earliest, but first we will commence removal of the top lids. We expect tank dismantling to be completed around the end of FY2025.
- Since these will be the first welded tanks to be dismantled, we shall accumulate knowledge, confirm procedures, and prioritize safety as we move ahead with dismantling while refraining from conforming to the schedule for schedule's sake.

Overview of J8/J9 area tanks dismantling

- The dismantling will start with the J9 area tanks which will be emptied first in conjunction with the discharge of ALPS treated water into the sea.
- The J9 area tanks dismantling period is scheduled from February 13, 2025 to the end of FY2025.
- Preparations, such as treating the residual water in the J9 area tanks and removing obstructions in the vicinity, etc., began in July 2024, and since February 4, 2025 we have been removing the connecting pipes between the tanks as part of preparations.
- Since the J8 area tanks are being used to store treated water to be re-purified, this water needs to be transferred to another tank group that has been emptied, so dismantling will commence after this water has been transferred.



【 J8 area 】

Capacity: 700m³/tank

Quantity : 9

Stored water: Water to be re-purified

【 J9 area 】

Capacity: 700m³/tank

Quantity : 12

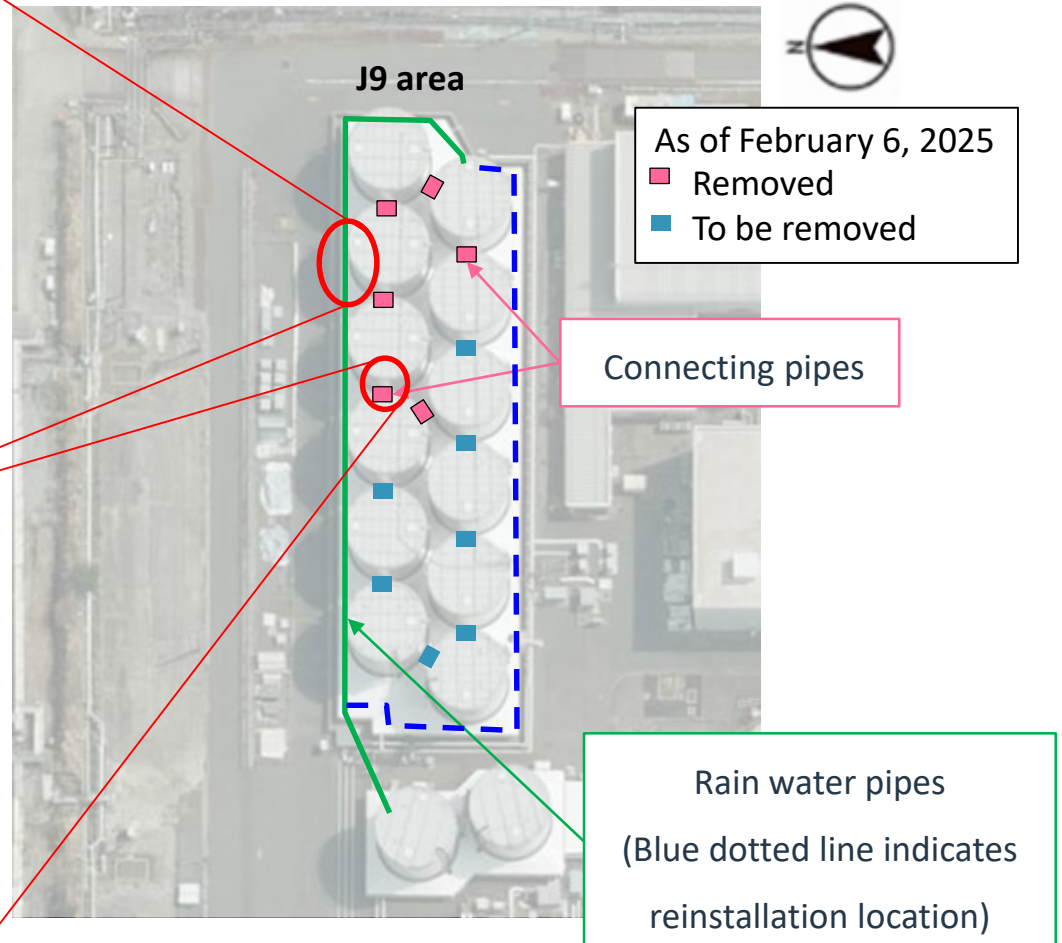
Stored water: ALPS treated water

Progress of preparations for J9 area tanks dismantling

- Since February 4, 2025, the connecting pipes ※¹ and valves between tanks are being removed, and we have commenced the removal/reinstallation of rain water pipes, ※² which would interfere with tank dismantling, as preparations for tank dismantling.

※¹ Connecting pipes: Pipes that connect tanks to each other

※² Rainwater pipes: Installed for transferring rainwater that is accumulated inside the weirs

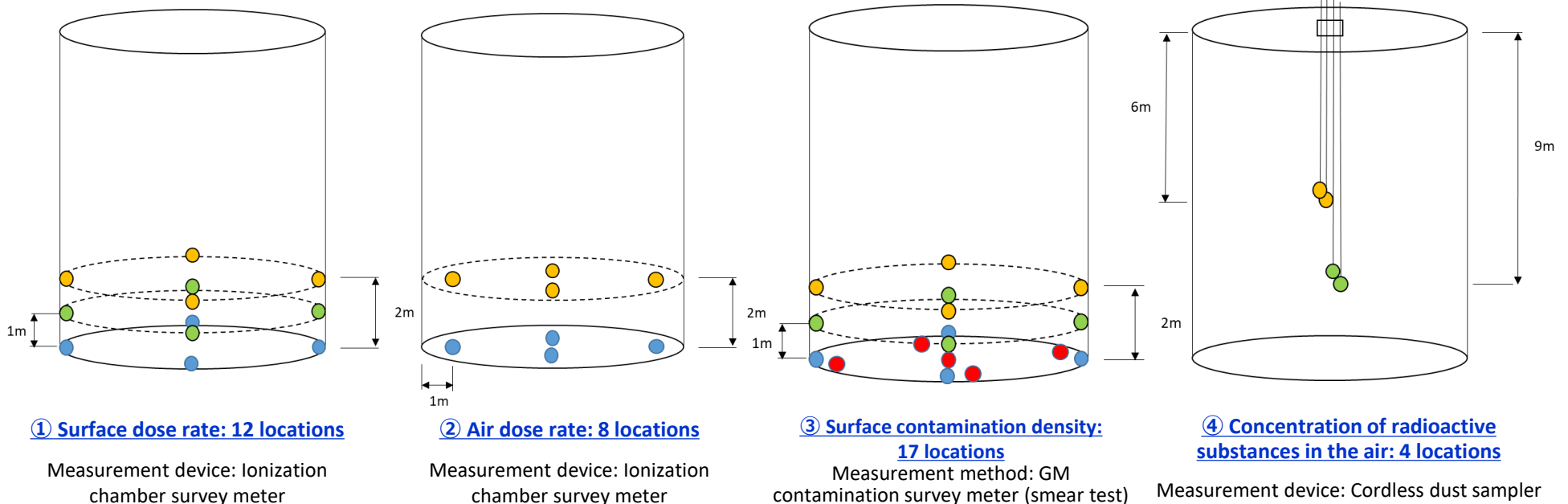


Results from internal dose investigation performed prior to tank dismantling **TEPCO**

- Dose measurements were taken in the J9 area between November 28, 2024 and January 28, 2025 (refer to the chart below). Dose measurement results confirmed that radiation levels inside all of the J9 area tanks are equal to background levels.

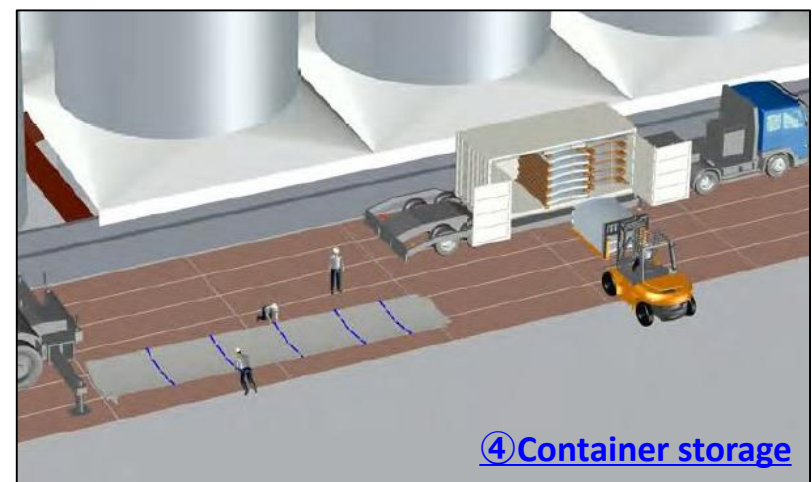
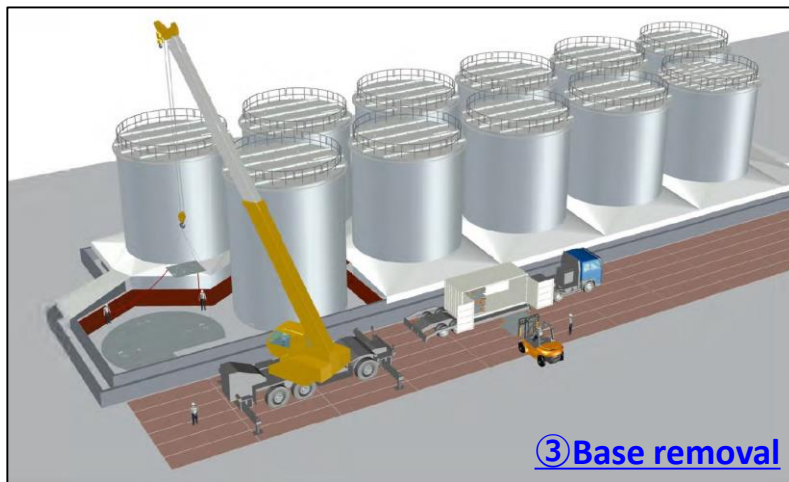
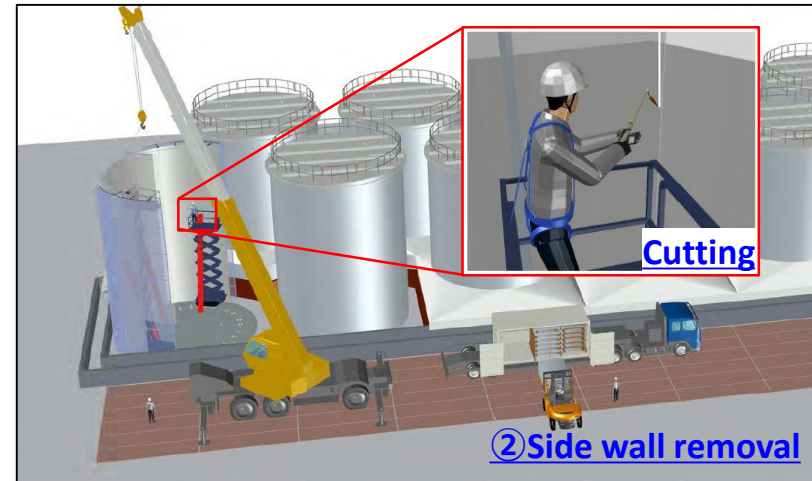
Measurement category	Measurement location	Measurement values (mean-maximum)
① Surface dose rate (γ)($\beta+\gamma$)	12 locations (base of the side walls and 1m and 2m above the bottom (four locations each))	γ : 0.001 - 0.001 (mSv/h) $\gamma+\beta$: 0.001 - 0.001 (mSv/h)
② Air dose rate (γ)($\beta+\gamma$)	8 locations (At the bottom 1m towards the center of the tanks from of the side walls, and 2m above the bottom at the same location (four locations each))	γ : 0.001 - 0.001 (mSv/h) $\gamma+\beta$: 0.001 - 0.001 (mSv/h)
③ Surface contamination density (indirect method)	17 locations (five locations at the bottom, at the base of the side walls, and 1m and 2m above the bottom (four locations each))	< 1.24E+00 (Bq/cm ²)
④ Concentration of radioactive substances in the air	4 locations (6m and 9m from the tank top lid (two locations each))	< 2.19E - 05 (Bq/cm ²)

【Locations of each measurement】



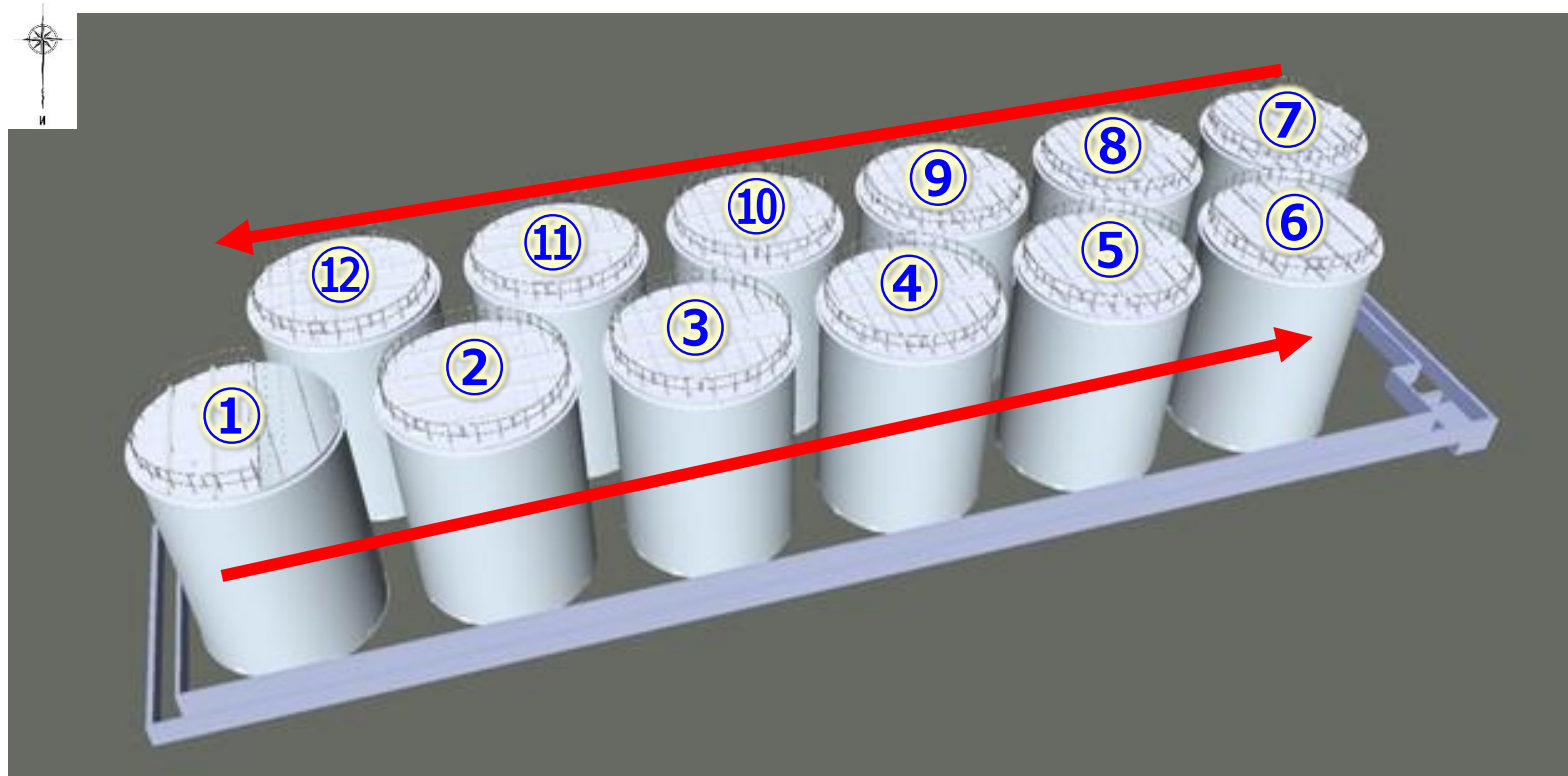
J9 area tank dismantling method and procedure

- Tanks will be dismantled in the order of **Top lid**→**Side walls**→**Base**
- The top lid (including ladders) will be dismantled by removing the bolts and cutting it with gas cutting machines, etc.
- The sidewalls and base will be cut with gas cutting machines and the fragments moved with a crane.
- The dismantled fragments (top lid, sidewalls, base, ladders, etc.) will be cut into sizes that can fit inside a shipping container and stored in 20-foot full height containers.



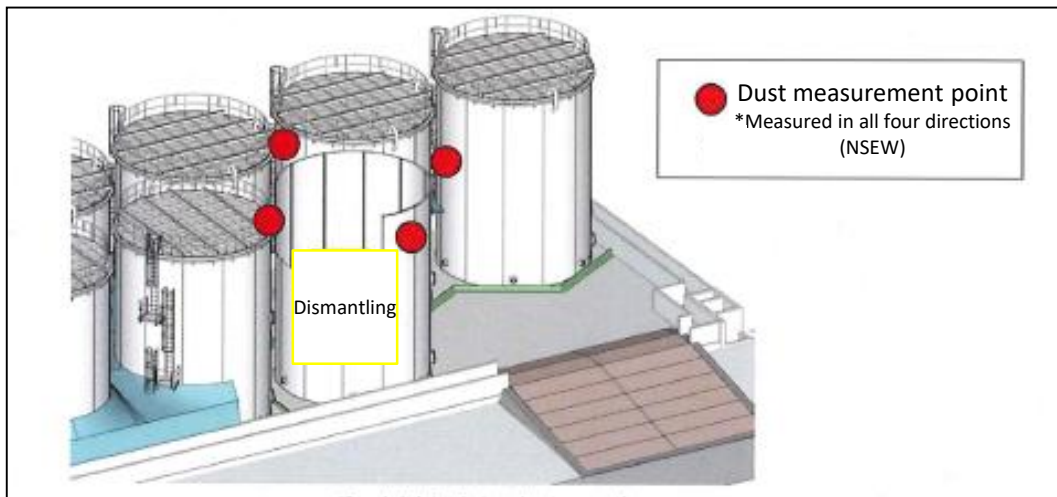
J9 area tank dismantling order

- The tanks will be dismantled in pairs in the order shown in the figure below. (①②、③④、⑤⑥、⑦⑧、⑨⑩、⑪⑫).
- The tanks on the north side are dismantled from the east side toward the west side, and the tanks on the south side are dismantled from the west side toward the east side.



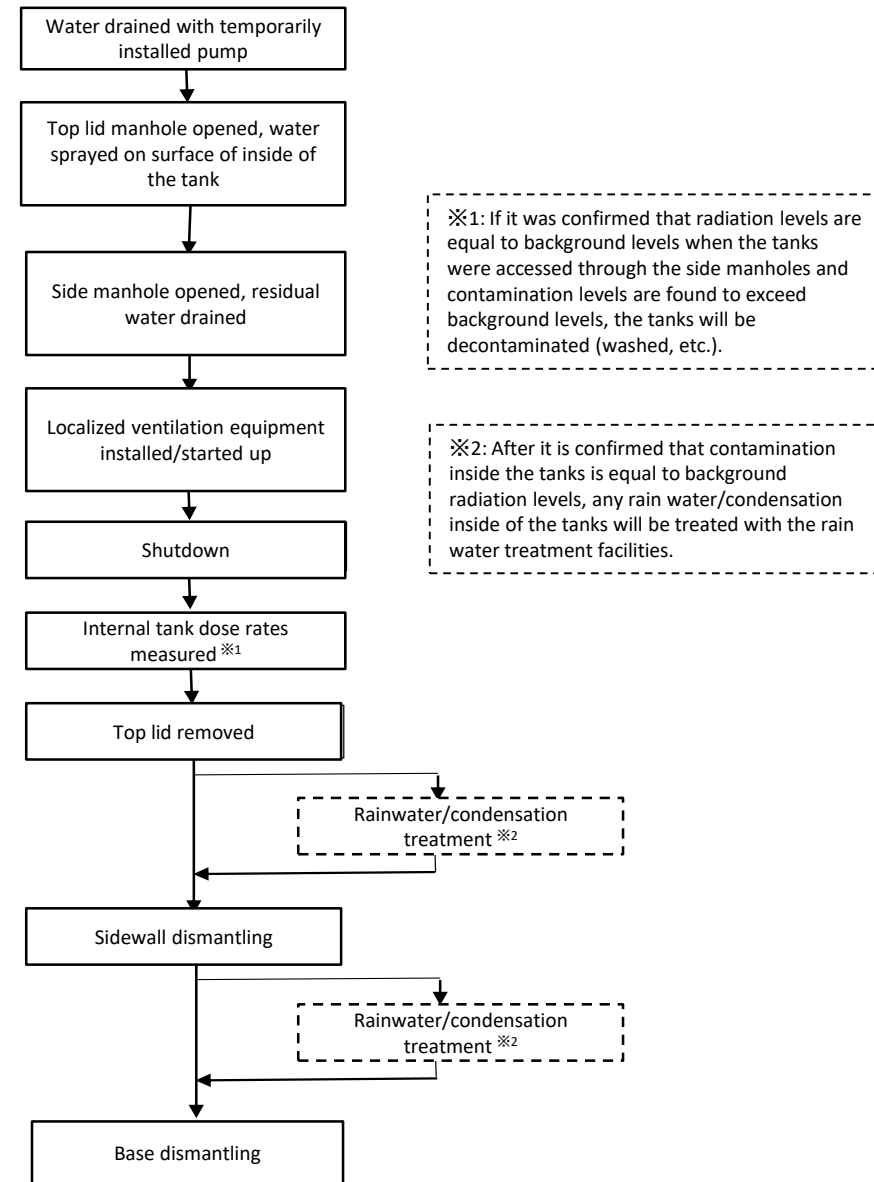
Safety measures during the dismantling of J9 area tanks

- Residual water in the tanks will be treated and dose measurements taken inside the tank in accordance with the dismantling workflow used to date (refer to the flow chart on the right).
- The results from those measurements have confirmed that the radiation levels inside all of the J9 area tanks correspond to background levels and are low enough to go forward with dismantling, but we will continue monitoring during tank dismantling and install dust samplers on bucket trucks, tripod poles, and the existing railings on the top of tanks. Measurements will also be taken in the vicinity of the tanks being dismantled (north-south, east-west).
- If an abnormality is discovered in dust measurements, work will be suspended and countermeasures, such as the spraying of water and enhanced dust collection, etc., will be implemented. The task will recommence only after it has been confirmed that conditions have returned to normal.



Determination criteria (work management criteria during the dismantling of flanged tanks)

- Dust dispersion: $5 \times 10^{-5} \text{Bq/cm}^3$ (Air dust concentration measurement)
 ⇒ Set at 1/4 the level requiring masks



Dismantling workflow

Treating the fragments from tank dismantling

- The 20-foot full height containers containing tank fragments will be moved to the primary storage area AA for storage.
- We plan to use approximately 3.5 20-foot full height containers for each tank (there are 12 tanks in total in the J9 area, so approximately 42 containers will be used).



20-foot full height container storage location



Concept diagram of fragment storage in the 20-foot full height containers

J8/J9 area tank dismantling schedule

- The planned J9 area tank dismantling period will be from February 13, 2025~the end of FY2025.
- The J8 area tank dismantling period will be reviewed as we closely examine the schedule for transferring residual water out of the tanks.
- Also, since these will be the first welded tanks to be dismantled, we shall accumulate knowledge, confirm procedures and prioritize safety as we move ahead with dismantling while refraining from conforming to the schedule for schedule's sake.

		FY2024		FY2025				FY2026			
		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
J9	Preparations in the vicinity	■									
	Residual water treatment	■									
	Dose measurements	■									
	Connecting pipe removal		■								
	Tank dismantling (including weirs)		■								