

Quality Confirmation of the Underground Reservoirs

- Strict quality control is performed for the underground reservoirs (installation of the double-layer impermeable sheet and the bentonite sheet in particular) in order to prevent leakage of contaminated water.
- For the defect inspection of the base material for the double-layer impermeable sheet and the welding areas, TEPCO supervisor attend each and every one of them.
- All the defect inspections were confirmed to have been performed as a result of checking the construction record.

Construction record during work

Work	Control item/method	Frequency	Attendance of TEPCO supervisor
Bentonite sheet installation	Overlapping width (150mm or more)	All welding areas	Attend inspections randomly selected
Impermeable sheet installation (First and second layer)	Overlapping width (100mm or more)	All welding areas	Confirmation by document
	Defect of the sheet base material (Spark test)	All	Attend all inspections
	Defect of areas automatically welded (Pressure-proof test)	All	Attend all inspections
	Defect of areas manually welded (Negative pressure test)	All	Attend all inspections
	Strength of welding areas of the sheet (160N/cm or more)	Location of construction (where the construction machinery is located)	Confirmation by document

Construction record at the time of completion

Item	Control item/method	Frequency	Attendance of TEPCO supervisor
Water filling test	After filling water in the reservoir, the water level shall be maintained for 3 days or more to confirm that the water levels of the reservoir and the leakage detection hole do not change.	Once each reservoir	Confirmation of continuous data