

Outline of System and Results of Inspection and Investigation

[Outline of system]

- The high-conductivity liquid waste treatment system is composed of a collection tank for high-conductivity liquid waste, a concentrator, and a distilled water tank, among other equipment. This system is used to collect and treat the liquid waste produced by operations within the radiation controlled zone that has a high level of conductivity. The condensed water that has been distilled and desalinated by the high-conductivity liquid waste treatment system is reused, or, if its level of radioactivity is sufficiently low, discharged from the building. (Upper section of diagram)
- Highly radioactive liquid waste that is produced by the concentrator in the high-conductivity liquid waste treatment system is collected in concentrated liquid waste storage tanks. The liquid waste is stored here for a specific period until its radioactivity has decayed, after which it is sent to the plastic solidification equipment in the solid waste treatment system, where it is solidified. (Middle section of diagram)

[Results of inspection/investigation]

- The inspection and investigation found that liquid waste with a high concentration of insoluble substances had settled at the bottom of the concentrated liquid waste storage tank (Inspection/investigation position (1)), and that insoluble substances had accumulated at Inspection/investigation positions (2) and (3).

