

System of feed water LAA

System of feed water provides realization the next functions:

- deaeration of turbine condensate;
- providing steam generator by feed water at normal operation and at normal operative conditions disfunction;
- regenerative heating of feed water;
- level maintenance in the steam generator;
- reactor plant cooldown;
- turned of make-up water pipeline in case of pipe burst or steam generator overflow;
- providing feed water supply to the system of blowdown and filling of the monitoring instrumentation and steam generator blowdown impulse lines.

The LAA system consists of feed pumps, feed water deaerator, armature, pipelines.

The LAA system filling is provided by make-up water system (LCU). The water washing of system equipment and pipelines is carried out before unit start-up after repair and unit shutdown for more then three days. The wash wastewater goes to the LDT tanks.

The feed water from the deaerator is supplied to feed tanks with temperature 174°C. Four pumps are working, one is reserve.

Then water is heated to 227°C and it is supplied through main regulation valves to the steam generator.