

System of steam generator blowdown water purification LCQ-2

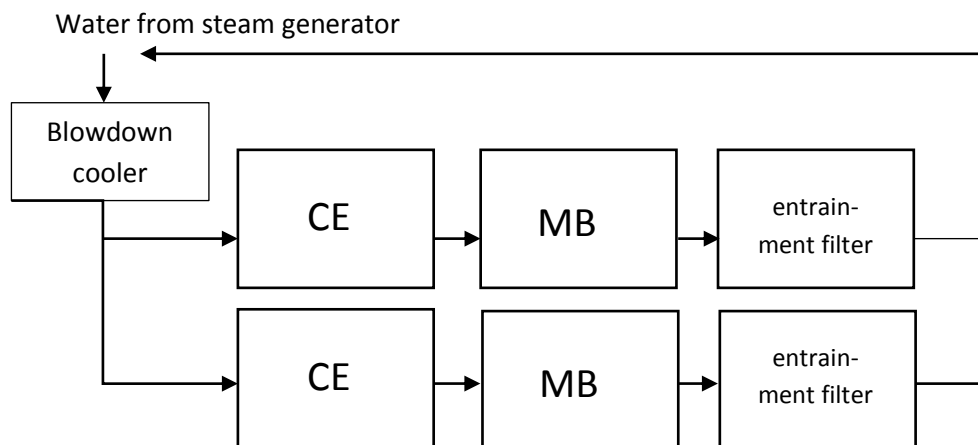
The function of LCQ-2 system is steam generator blowdown water purification from mechanical and dissolved impurities.

The LCQ-2 system consists of two H-cation exchangers, two MB, two entrainment filter, pipelines, armature.

Steam generator blowdown water purification is carried out at a rate of no more 100 t/h in the reactor plant equipment operational period.

Steam generator blowdown water with temperature 50°C after blowdown expansion tank and cooler goes to cation exchanger, where blowdown water is purified from mechanical impurities and from ammonia and ethanolamine cations. Then steam generator blowdown water is introduced on MB, where blowdown water is purified from dissolved cation and anion impurities.

Purified water after the entrainment filter is replaced by pumps.



Scheme 1. The principal technological scheme of LCQ-2 system
(CF – cation exchanger; MB – mixed bed)