

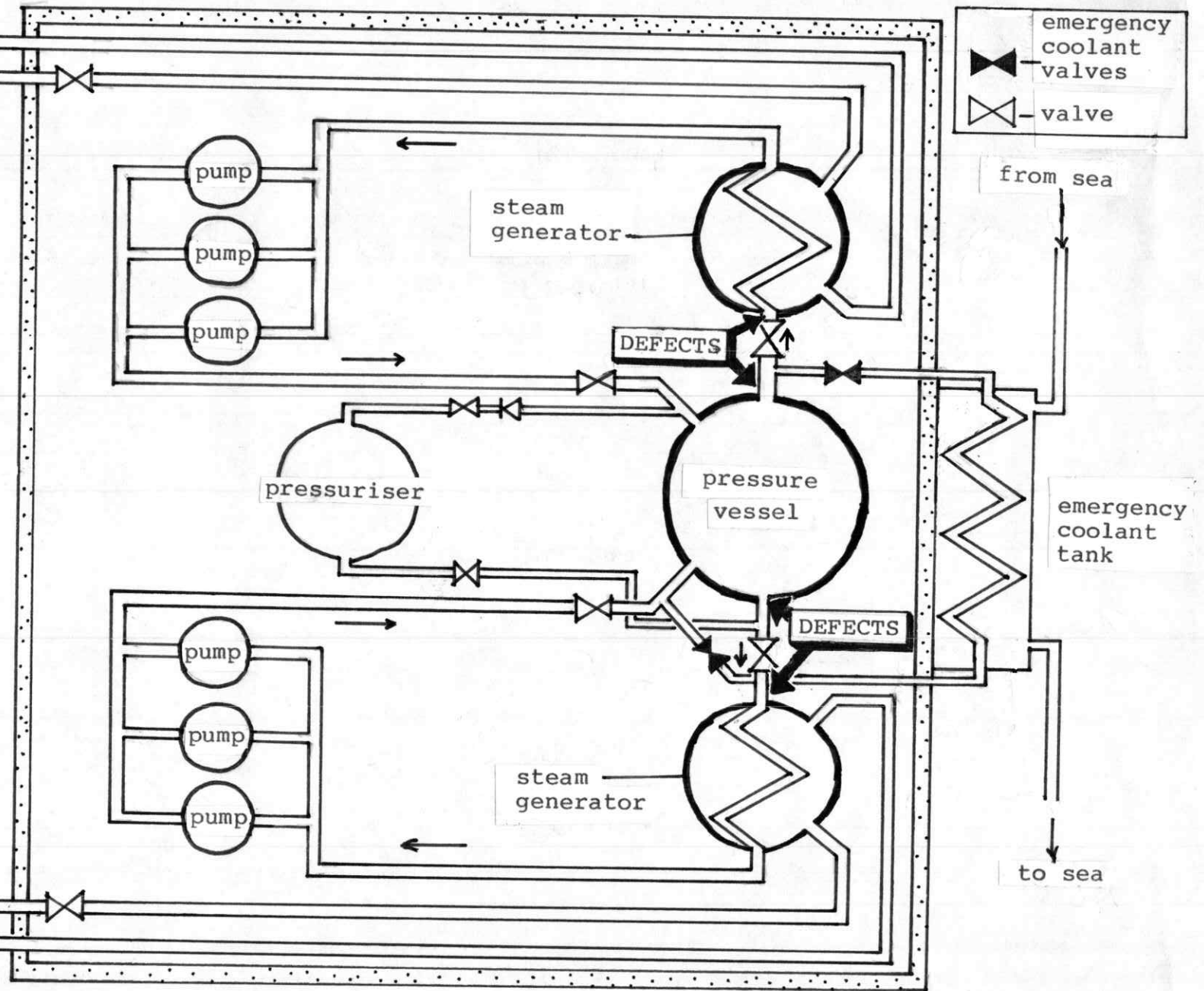
from turbines
to turbines

PWR 1 REACTOR

The diagram shows the two steam generators on either side of the pressure vessel. The defects occur at either end of the two pipes through which coolant flows from the pressure vessel to the steam generators.

There are valves which automatically open to activate the emergency coolant system which works by convection. This is cooled by sea water, or in the event of grounding from ballast tanks.

to turbines
from turbines

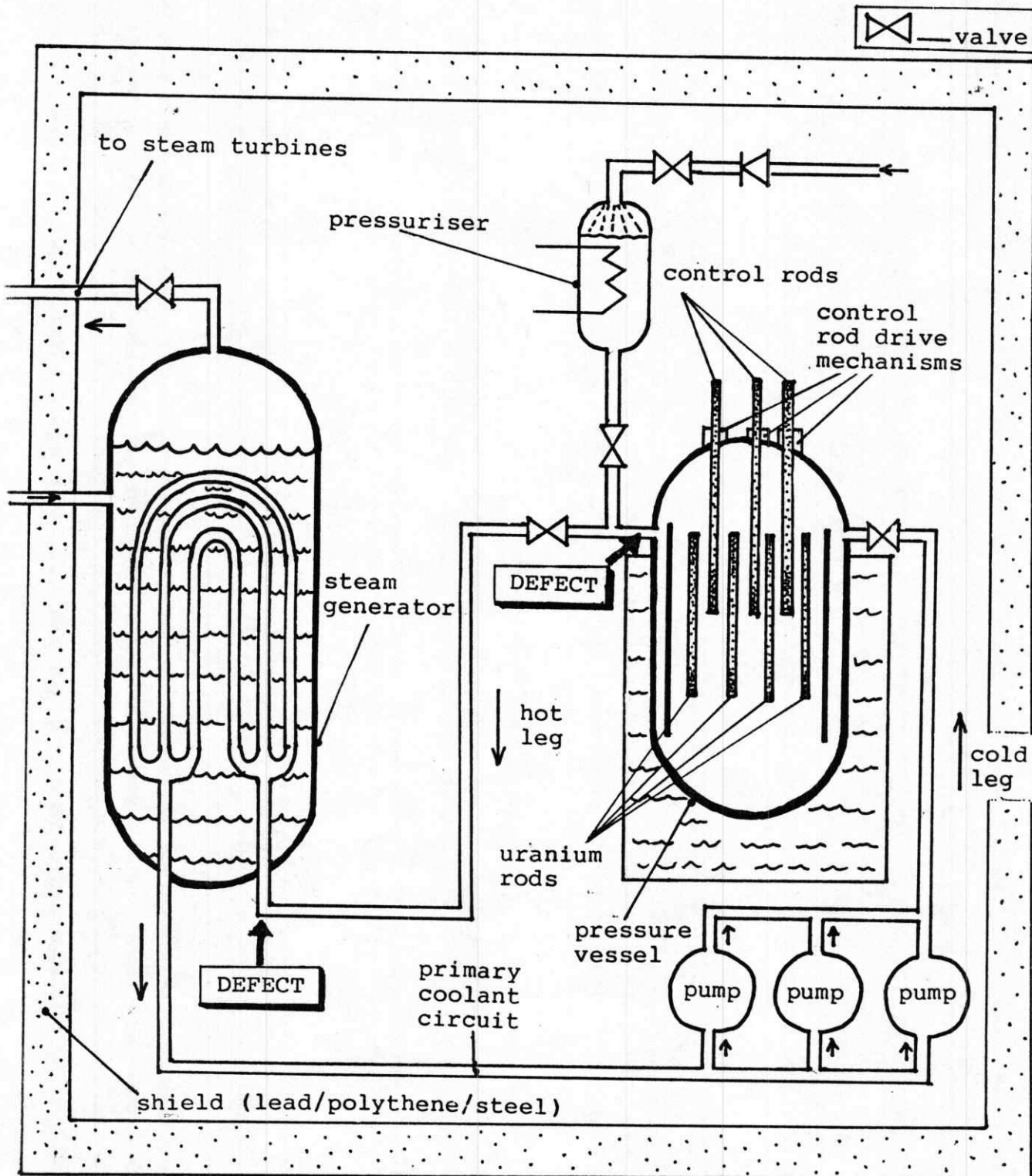


emergency coolant valves
valve

from sea

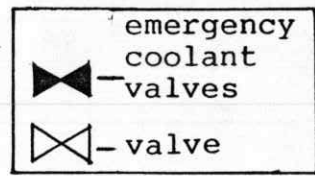
emergency coolant tank

to sea



PWR 1 REACTOR

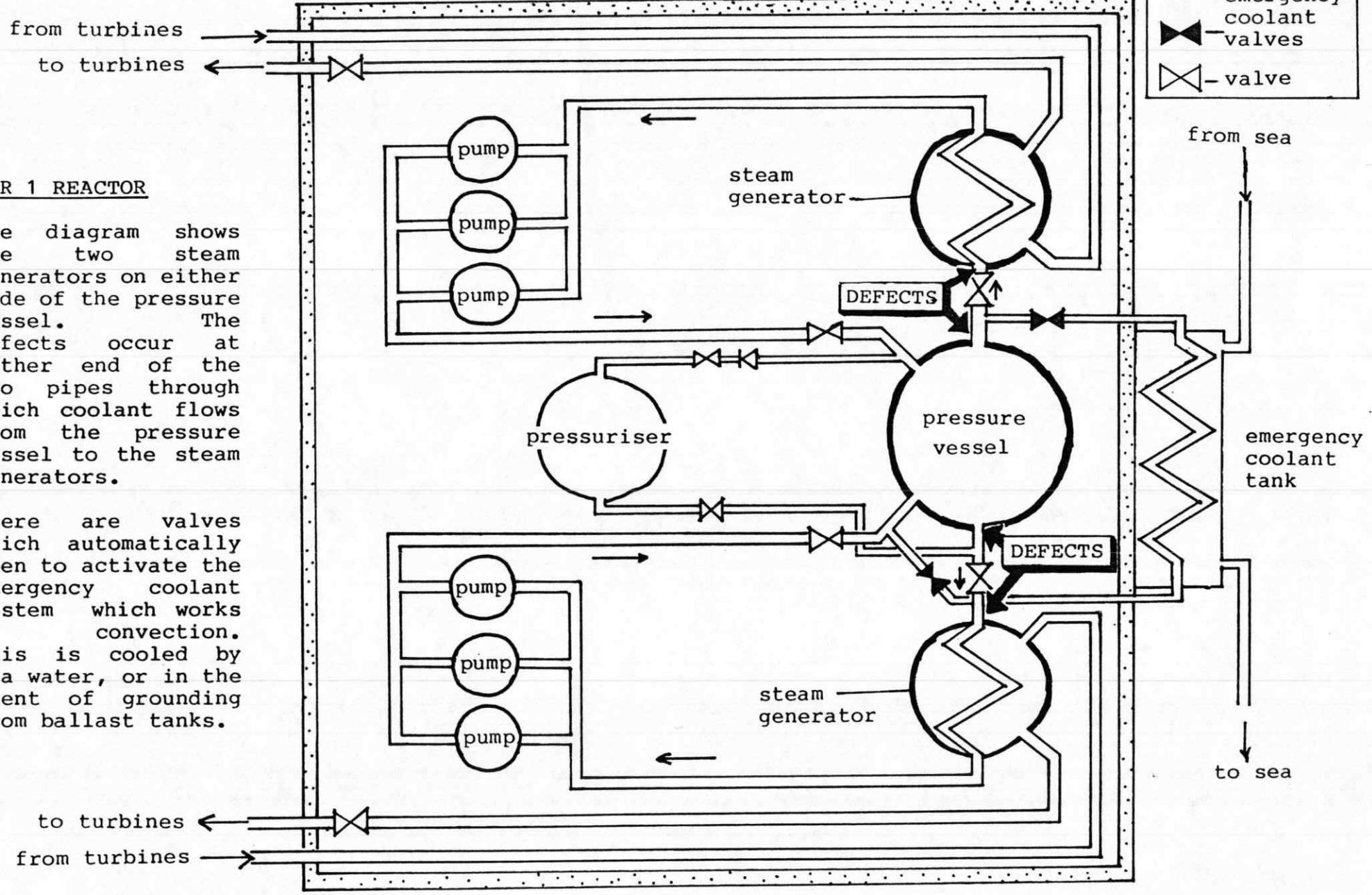
The diagram shows one side of the primary coolant circuit linking the pressure vessel and one of the two steam generators. Three pumps keep the coolant circuit flowing. To make the reactor critical, the circuit is brought up to high pressure by the pressuriser and the control rods are moved to the optimum height. In the steam generator, heat is extracted into the secondary steam circuit which drives the turbines.



PWR 1 REACTOR

The diagram shows the two steam generators on either side of the pressure vessel. The defects occur at either end of the two pipes through which coolant flows from the pressure vessel to the steam generators.

There are valves which automatically open to activate the emergency coolant system which works by convection. This is cooled by sea water, or in the event of grounding from ballast tanks.



from turbines →
to turbines ←

to turbines ←
from turbines →

from sea

emergency coolant tank

to sea

steam generator

DEFECTS

pressuriser

pressure vessel

DEFECTS

steam generator

pump

pump

pump

pump

pump

pump