CLEXTRAL | PUMPS

GHC PUMP

The Clextral GHC Pump is used to the safety injection loop of the Nuclear Power Plants, and it is installed on almost all French Nuclear Power levels (900/1300MW and N4), in Europe, in Africa and in Asia.

Location : Nuclear Auxiliary Building.

FEATURES

- Injection to Primary Pump Units’ seals in emergency situation during an electrical power failure.
- Hydraulic test of the Primary Loop Circuit
- Periodic fill up of RIS Accumulators (make-up mode)

TECHNICAL SPECIFICATIONS

- Reciprocating volumetric pump with 2 plungers (Ø125/Ø150)
- Hydraulic system control: plungers are working with an alternative displacement movement driven by a hydraulic jack and controlled by an electrical pilot valve
- Dampeners 2.5 L at the discharge of the pump to reduce the pressure picks
- Rate: 40 strokes/min

OPERATING CONDITIONS

- Injection of borated water under a discharge pressure of 180 bar at 6 m3/h (900MW), 177 bar at 9 m3/h (1300MW) and 180 bar at 9 m3/h (N4)
- Hydraulic test: reaching the test pressure by successive steps: injection at the maximum flow, then hold the required test pressure (240 or 270 bar) without any flow.
- Make-up: discharge pressure of 47 bar without any flow

SEISMIC QUALIFICATION

- Vibrating table and/or calculation
- Operability after an earthquake

QUALIFICATION

Design and manufacturing in accordance with RCC-M (level 2 or 3) or ASME III.

GHC
HYDROTEST
PUMP