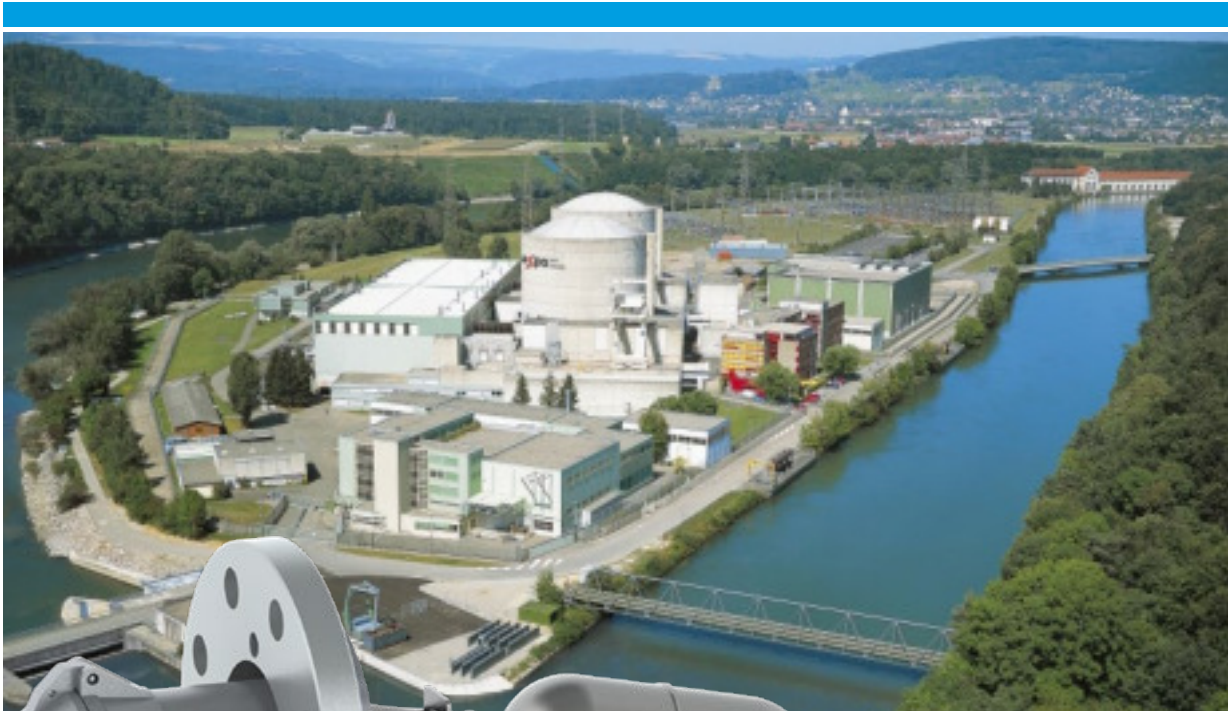


NUCLEAR POWER STATION BEZNAU, SWITZERLAND



Trimod Besta

Level measurement A brand of Bachofen AG
www.trimodbesta.com



Plant information

The power plant is on an island formed by the course of the river and the channel for the Beznau hydro-electric power plant. Given the sufficient supply of cooling water from the Aare, there is no need for a cooling tower. Beznau consists of two near-identical units, Unit 1 and Unit 2. Their net output is 365 megawatts (MW) each. Both are baseload power plants, i.e. they generate uniform electric power round the clock. They operate all the year round, except two to four weeks in summer, when the plants are shut down for their annual overhaul and replacement of their fuel rods.

Both units at Beznau nuclear power station are equipped with Westing-house pressurized water reactors. In these reactors, the water flowing through the reactor core is highly pressurized, so that it can not boil, despite the temperature of 312°C.

Requirement for level switches

- Operating pressure po up to 70 bar, ANSI cl. 1500
- Operating temperature To max. 300°C

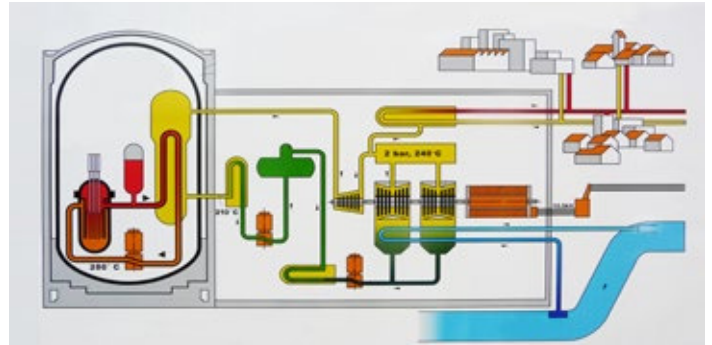
Installed level switch types

The power plant consists of about 100 level switches. The switches are used as high-, high high-, low- and low low-alarm and as safety relevant turbine trip. They are installed in the moisture separator reheaters, condensers, low- and high pressure preheaters, in feed-water tanks and as well in the Refuna heat exchangers.

Refuna supplies heating from the Beznau nuclear power plant to around 15'000 residents of the region. Refuna makes an important contribution to a clean environment in this region.

Switch types

- AA 01 04 PN 25
- AA 01 051 PN 25, protection bellow
- AA 21C 04 DIN PN 16
- AA 136JL 03 ANSI cl. 1500, ring joint
- P 01 04 PN 25, pneumatic on/off
- P 21C 04 DIN PN 16, pneumatic on/off
- P 23E 02 DIN PN 63, pneumatic on/off



In the two steam generators, the heat generated in the reactor is released into a second circuit. Here, the water is completely separated from the first circuit and comes to the boil at lower pressure. The resultant steam is channelled on to the turbines which drive the generators.

Why Trimod'Besta?

Extremely high reliability and lifetime of the switches. Excellent technical support. Ability to offer also tailor made replacements for the 40 years old switches, which means that no new approval procedure is necessary.



Source front: www.axpo.ch/axpo/de/kernenergie/wissen/kernkraftwerk_beznau.html