Product Information

Handling of DC-bushings during repair of transformer

General

This instruction is valid for HVDC-bushings built without oil side porcelain. It is also valid for HVDC-bushings with oil side porcelain and connected to the transformer oil via an oil circulation hole in the flange extension.

Lowering the oil in the transformer

The bushings need not to be dismounted from the transformer if the time from lowering the oil and start of the re-process of the transformer is less than one week. If the repair work takes longer time than one week, the bushings shall be dismounted from the transformer. The bushings without oil side porcelain shall be placed in their transport containers after which the bushings are filled with clean dry transformer oil. See the Product Information for the actual bushing regarding removing oil to allow pressure differences in the bushing due to temperature variations.

For bushings with oil side porcelain, the oil circulation hole in the flange extension shall be sealed after which a quantity of oil shall be removed from the bushing as described in the Product information for the actual bushing.

Oil filling of transformer and bushings

For simultaneously oil filling of bushings and transformer, hoses are connected to the valves in top of the bushing. One hose shall be connected to a valve in the oil filling system. The other hose shall be connected to a suitable valve in the vacuum-system. Thus, at oil filling of the transformer also the bushings will be completely oil filled.

After the oil filling the valves in the top of the bushing shall be closed and plugged with a R3½”-plug, ABB article No. 2522 2021-113. Use thread tape when mounting the plugs.