

一起500kV主变压器绝缘油含气量超标分析处理 【上架时间： 2023-03-30】



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### 详细信息

【标题】一起500kV主变压器绝缘油含气量超标分析处理

【Title】Analysis and treatment of a 500kV main transformer insulation oil gas content exceeding the standard

【摘要】变压器绝缘油中含气量的检测对于大型变压器的安全、稳定运行相当重要，一是含气量过高超过绝缘油的溶解能力（一般为10%），绝缘油中溶解的气体将以气泡的形式析出，降低绝缘油的整体绝缘性能，引起油中局部放电；二是含气量超标一般是吸收环境中的空气进入变压器中，空气中的氧气会与绝缘油、绝缘材料产生氧化反应，加速变压器的绝缘老化进程，缩短变压器的使用寿命；三是绝缘油中析出的气体会不断聚集在气体继电器中，严重时会引起气体继电器的误动作，导致主变跳闸。本文总结了500kV玉溪变主变压器含气量超标问题过程中的经验，对变压器含气量超标的检查处理步骤和原因分析进行了详尽描述，对于同类型变压器含气量超标处理有一定的借鉴意义。

【Abstract】The detection of gas content in insulating oil of transformer is very important for the safe and stable operation of large transformers. First, if the gas content is too high and exceeds the dissolving capacity of insulating oil (generally 10%), the dissolved gas in insulating oil will precipitate in the form of bubbles, which will reduce the overall insulating performance of insulating oil and cause partial discharge in the oil. Second, when the gas content exceeds the standard, the air in the environment is generally absorbed into the transformer, and the oxygen in the air will react with insulating oil and materials to accelerate the insulation aging process of the transformer and shorten the service life of the transformer; Third, the gas precipitated from the insulating oil will continuously gather in the gas relay, which will cause the misoperation of the gas relay in severe cases and lead to the tripping of the main transformer. This paper summarizes the experience in the process of the gas content exceeding the standard in the main transformer of 500kV Yuxi Transformer, and describes in detail the inspection and treatment steps and cause analysis of the gas content exceeding the standard in the transformer, which has certain reference significance for the treatment of the gas content exceeding the standard in the same type of transformer.

【关键词】变压器油；含气量；检查；原因分析

【Keywords】Transformer oil; Gas content; Check; Cause analysis

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