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REVIEW FOR MAINTENANCE OF THE THREE WINDING POWER TRANSFORMERS

ABSTRACT

Three-phase power transformers with three windings 110/35(20)/10 kV are most common power transformers used for power supply in the distribution network of the electric power system of Macedonia. Having into account that in each substation 100% transformer energy reserve is not present (spare transformer), great attention has to be paid on the operation, maintenance and testing of such energy devices in order to be paid on the reliability of these transformers and the whole power substation. In this paper, we present some experiences of testing of three-phase power transformers with three windings in 110/35/10 kV Substation Gevgelija. Also we propose some additional measurements, which better describe the real operational preparedness of this important energy device.

Keywords: power transformers, maintenance, testing.