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Belaruskali, JSC uses PKV/M7 instruments to conduct non-demountable diagnostic of high-voltage circuit breakers. This equipment has been used since 2013. At the early stage, the main equipment which were tested were oil-blast circuit breakers VMPE-10, VMPP-10, VMG-133 and VKE-10. Due to the planned replacement of oil-blast circuit breakers at the enterprise with vacuum ones (VV/TEL, VD4), above mentioned equipment is tested. 110 kV SF6 circuit breakers manufactured by Siemens are also tested.

PKV/M7 instrument allows you to take a variety of parameters (speed, time) of circuit breakers and detect defects of equipment without disassembly, to plot graphs based on the parameters. These are the pluses of this instrument.

The instrument operation requires care and accuracy while making measurement methods at the early stage. The skills of systematization of measurements appear and the speed of testing increases after regular use. The measurement method is simple and clear.

A good function of the instrument is the ability to plot graphs of circuit breaker closing and generating data on a personal computer.

The following defects were identified when testing 6kV oil-blast circuit breakers: incorrect operation of a circuit breaker buffer, non-simultaneous closing of phases, wear of insulating rods.

Due to the lack of experience in using this type of devices earlier and the lack of use of analogues from other manufacturers, it is not possible to give a comparative characteristic.

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