



**PJSC "Second Generating Company  
of the Electric Power Wholesale Market"  
("OGK-2", PJSC)**

**The branch of "OGK-2",  
PJSC Serovskaya GRES**

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*Review of PKV/U3.1 operation*

**Dear Olga Nikolaevna!**

Currently, a high-voltage circuit breaker analyzer PKV/U3.1 is operated in the electrical laboratory of an electric shop in the branch of OGK-2, PJSC Serovskaya GRES.

This instrument has been used since 2014 for high-voltage circuit breaker diagnostic, in particular: VVN-220 air-blast circuit breakers, VGT-110 SF6 circuit breakers, SION 3AE 1185-1 vacuum circuit breakers. The instrument has proved its reliability and multifunctionality during operation as it is able to assess the state of high-voltage circuit breakers of all types and has lots of various adapters and devices for diagnostic.

When diagnosing VVN-220 circuit breaker with PKV/U3.1 there were found mismatches in nominal values of the time characteristics in circuit breakers actuation.

PKV/U3.1 instrument helped to reduce time for diagnostic of high-voltage circuit breakers, because it is possible to see the measured values in digital values as well as in a view of oscillogram immediately after the measurement.

According to the results of the instrument operation for more than 7 years, this instrument is recommended for diagnostic of high-voltage circuit breakers.

**Technical Director –  
Chief Engineer**

**M.V.Zharkevich**