NOVA INDUSTRIAL SA

Surge arresters prophylaxis

NOVA INDUSTRIAL S.A. evaluates the technical state of the surge arresters in service, on-line or off-line, based on appropriate measurements and tests done according to the national - international standards and the operation and maintenance recommendations / instructions given by the manufacturers.

The analysis of the tests result is done taking into account the evolution of the main parameters that individualize the state of the surge arresters, **NOVA INDUSTRIAL S.A.** owning a large date base in this respect.

NOVA INDUSTRIAL S.A. owns also the appropriate high performance apparatus and equipment necessary to test the metal-oxide surge arresters without gaps and the classic surge arresters with spark gaps and silicon carbide.

The main types of diagnoses tests and measurements used are:

1. Technical state assessment for metal oxide surge arresters in service:
- measurement of the resistive current through metal oxide surge arrester in service, using a monitor equipment based on the harmonic analysis of leakage current and the third harmonic with compensation.
- measurement of the r.m.s. and peak values of the leakage current through the surge arrester in service, under normal service voltage.
- measurement of the third harmonic of the leakage current in service, under normal service voltage.

2. Technical state assessment of the surge arrester with spark gaps:
- measurement of the leakage current through the surge arrester in service, under normal service voltage.
- measurement of the leakage current at a higher voltage than the operating one.
- measurement of sparkover voltage, at power frequency.

3. Operating test for surge counters related to surge arresters.

Metal-oxide surge arresters without gaps and classic surge arresters with spark gaps and silicon carbide



Over 25 years of experience

ISO 9001, ISO 14001, ISO 45001

QUALITAS
CERTIFICAT SMC NR. QC/1105 SR EN ISO 9001 : 2015

QUALITAS
CERTIFICAT SMM NR. QM/1034 SR EN ISO 14001 : 2015

QUALITAS
CERTIFICAT SMSSM NR. QSM 38 SR EN ISO 45001 : 2023

www.novaindustrialsa.ro