

Performance of High Voltage Transducers for Measurement of Power Quality Disturbances – Modeling and Simulation

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Abstract: - In order of to keep under control power quality parameters in transmission and distribution networks, reliable measurements are necessary to assure the conformity with standards or other national or international regulatory documents [1]. For these measurements, the use of high voltage transducers is imperative for to provide a low voltage signal, for instance, under 1000V, considering that power quality analyzers in general can measure only low voltage signals. As power quality technical standards, not yet, cover calibration procedures for high voltage transducers, necessary to assure reliability for such measurements, this research proposes possible experimental setup for such calibrations, in real high voltage transducers.

Key-Words: - high voltage transducers, capacitive voltage dividers, power quality measurements, harmonics, IEC 61000 series, high voltage