



DESIGN, ENGINEER, TEST AND
COMMISSION

An all-inclusive approach to Electrical Protection

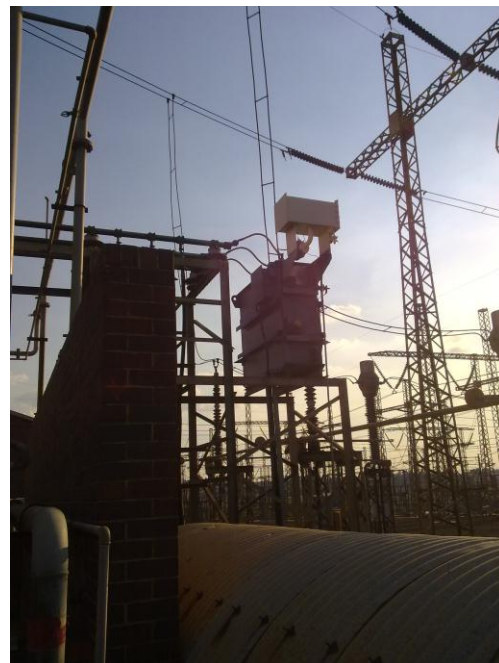


www.okusha.com

PROTECTION: Design, Commission, Test

Okusha Engineering is a client and technology orientated consulting engineering firm, specializing in protection.

Okusha Engineering is a well-established company willing to take on any Electrical Engineering task ranging anywhere from Design, Testing, or building of electrical protection installations to Grading, Settings or Arc Flash Analysis of power networks, making use of only the best testing equipment and simulation software.



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FROM CONCEPT TO IMPLEMENTATION AND BEYOND

The fast and ever changing growth in technology requires an integrated approach to engineering principals that defies conventional approaches towards Electrical Engineering.

Okusha Engineering has established itself as the leader in Protection Engineering by being able to provide a full in-house service for all power system needs. Our engineering methods employ only the latest and most advanced technology coupled with highly qualified and experienced engineers ensuring consistency and accuracy of all projects taken on.

ACHIEVEMENTS

- Eskom
- Okusha Engineering is responsible for the fault level calculation as well as the grading and settings for all thirteen of Eskom’s coal fired power stations, as well as Eskom’s peaking stations where Okusha Engineering is also implementing Arc flash analysis.
 - Okusha Engineering is contracted to assist with the protection maintenance of Eskom’s coal fired power stations.

- Ford
- Okusha Engineering has implemented Arc Flash Analysis at both the Port Elizabeth and Silverton factories, the first of its kind outside of Eskom, which is now the standard followed by Ford across the globe.

SERVICES

Arc Flash Analysis, Grading, Settings



By making use of DIGSILENT power factory Okusha Engineering is able to accurately model any power system; this model can then be used for Fault level calculations, Grading and Settings, or Arc flash analysis. From the data attained in the model and various studies the power system can be engineered to make the power system as safe and stable as possible by implementing the latest technology.

Primary Injection Testing



Okusha Engineering only makes use of the best equipment for primary injection testing, the Omicron CPC100. The CPC 100 can perform various tests on:

- Current Transformers
- Voltage Transformers
- Power transformers
- Power lines
- High Voltage cables
- Grounding systems
- Rotating machines
- GIS Systems
- Switchgear and circuit breakers
- IEC 61850 installations
- Protection relays

Secondary Injection Testing



The CMC 356 is the universal solution for testing all generations and types of protection relays, its powerful six current sources with an extremely dynamic range, make this unit capable of testing even high burden electromechanical relays with very high power demands

