

STEELCOR POWER PTY LTD

SAFETY AND HEALTH PROGRAM

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1. SCOPE:

This specification embraces the measures taken by Steelcor (Pty) Ltd, to render their products suitable for use in a mining and electrical industry without risk to safety and health.

The products included in supply

- 1) Bulk Metering Kiosks up to 22kV
- 2) Consumer Switches up to 22kV
- 3) Switching Substations
- 4) Premset Switchgear

2. RISK ASSESSMENT PROJECT:

During the risk assessment project safety and health hazards to persons have been identified, analysed, assessed and controlled by means of specific action plans. The risk assessment project team included the following persons:

Name	Company	Capacity
P. Zondo	Steelcor Power	Managing Director
J.E. Farren-Handford	Steelcor Power	Consultant
E. Hlabane	Steelcor Power	Tankshop Director

The above participants are in agreement that the risk assessment project has been carried out to the best of their ability and has lead to the confirmation of the design parameters of the system to control the risk associated with potential hazardous events.

3. SCALE OF ASSESSMENTS:

<u>Likelihood</u>	<u>Numerical scale</u>	<u>Severity</u>	<u>Numerical scale</u>
High	0,7 – 0,9	High	0,7 – 0,9
Medium	0,4 – 0,6	Medium	0,4 – 0,6
Low	0 – 0,3	low	0 – 0,3

4. REFERENCE DOCUMENTS:

The following documents have been consulted for the application of this risk assessment exercise:

British Standard BA EN 954 - 1	Safety of Machinery - Safety related parts of control systems
British Standard BS EN 1050 : 1997	Safety of Machinery - Principles of risk assessment
British Standard BS EN 292 : Part 1 : 1991	Safety of Machinery - Basic concepts, general principles of design. Part 1 - Basic terminology methodology
British Standard BS EN 292 : Part 2 : 1991	Safety of Machinery - Basic concepts, general principles of design. Part 2 - Technical principles and specifications
Australian/New Zealand standard AS/NZS4360 : 1995	Risk Management
Textbook by AC Valsamakis, RW Vivian and GS du Toit	The Theory and Principles of Risk Management Butterworth Publishers 1992
RSA OSH act 1998	Health and safety Risk Management

5. CONTROLS APPLICABLE TO ENHANCE SAFETY AND HEALTH:

5.1 Controls to prevent events that could result in works.

1. Do not monkey around or play the fool, at any time during working hours.
2. Do not throw things at people or for people to catch.
3. Walk to wherever you want to go. DON'T RUN.
4. Roller shutter doors are not to be half-opened but either completely open or completely shut.
5. Do not interfere with electrical machinery.
6. Ask the electrician to fix anything that does not work electrically.
7. Do not operate a machine until you fully understand how it works.
8. Do not enter the TEST BAY when the red lights are on.
9. **Don't ever climb over testbay fence.**
10. When you have finished working and when the job has been moved, clean up working space before commencing with the next job.
11. If you have climbed on top of a job, do not jump off. Climb off.
12. Do not hang on the crane, or fool around with crane at all times.
13. When travelling with crane with no load, hooks are not to hang down.
14. No passengers allowed on the fork lift truck.
15. **If you do not understand something, ask your supervisor.**

5.2 Controls to prevent events that could result from products.

1. Precautionary Research and development meetings to be held.
2. Discussions with clients to ensure that precautions have been taken to comply with regulations.
3. Full product testing to be done to clear any possible failures.
4. Prescribed drawings to be checked and approved.
5. All statutory safety signage to be clearly visible.
6. The insulation materials comply with the standard system voltages as well as acceptable over voltages.
7. Lifting lugs to lift the equipment safely with the correct lifting tackle are provided. Each lifting lug is designed to suspend the full mass of the equipment. The mass of the equipment is inscribed onto the nameplate.
8. The use of enclosed cable termination boxes for both the HV and LV cable terminations is recommended.