SAFETY IN MINES RESEARCH ADVISORY COMMITTEE (SIMRAC)

THE SAFE USE OF MINE WINDING ROPES

CSIR Mine Hoisting Technology

SIMRAC Project No. GAP 054

Johannesburg, South Africa

April 1996

OVERVIEW

The South African Safety in Mines Research Advisory Committee, known as SIMRAC, was established in terms of Section 29 (9) (a) of the South African Minerals Act, (Act 50 of 1991) with the principal objective of advising the Mine Health and Safety Council on the determination of the safety risk on mines, and the need for research into safety on mines based on the safety risk.

SIMRAC identifies research projects to address and reduce safety risks on mines, and determines the cost and priorities of projects, concludes agreements for carrying out projects, imposes a levy to fund research, monitors the progress on these projects and communicates research results to all stakeholders.

The final report on the SIMRAC funded project, The Safe use of Mine Winding Ropes, consists of seven volumes. Volume 1 presents an overview of the entire project. The other volumes are collections of relevant research reports. A total of 29 reports and a summary report were generated covering the subjects of:

- Recommendations for changes in rope safety factors.
- Rope terminations.
- Code of practice for rope condition assessment.
- Training manuals for incumbent rope inspectors.
- Code of practice for performance, operation, testing and maintenance of drum winders relating to rope safety.
- Forces acting in sinking winder ropes.

The schedule below lists all the volumes of the final report:

Volume 1 : EXECUTIVE SUMMARY

Volume 2 : RECOMMENDATIONS FOR CHANGES IN ROPE SAFETY FACTORS


Volume 3: ROPE TERMINATIONS


Volume 4: CODE OF PRACTICE FOR ROPE CONDITION ASSESSMENT


Volume 5: TRAINING MANUALS FOR INCUMBENT ROPE INSPECTORS


**Volume 6 : CODE OF PRACTICE FOR THE PERFORMANCE, OPERATION, TESTING AND MAINTENANCE OF DRUM WINDERS RELATING TO ROPE SAFETY**


**Volume 7 : FORCES ACTING IN SINKING WINDER ROPES**


**OTHER SIMRAC GOLD AND PLATINUM WINDER ROPE RELATED REPORTS**


All the SIMRAC GAP reports and volumes are available for download in Adobe Acrobat PDF format from:

[http://www.simrac.co.za](http://www.simrac.co.za)