Schauenburg’s Advanced Technical Services (SATS), a division of Schauenburg Systems (Pty) Ltd, identified the need in the mining industry to overcome increased scrutiny over the safety of personnel in mines and the prevention of situations which contravene the requirements of Sections 54 and 55 of the Mine’s Health & Safety’s Act (MHSA). While safety is a key concern, mining authorities have started to realise that it is not always one of their core competencies, thus making outsourcing aspects of health and safety a viable and often safer option. This drive has initiated the advent of advanced products and information systems that have pioneered the way for transformation of the Lamproom function, where it was traditionally used as an “issue of lamps centre” to miners going underground. The Lamproom has evolved into a verification and safety command centre for the control and monitoring/reporting of personnel, safety equipment, legislated requirements and best practices in the mining industry.

The traditional and modest Lamproom has developed into a sophisticated “Safety Control Terminal” (SCT).

Systems within the Safety Control Terminal verify that all safety critical equipment which are subjected to functional testing are in good working order before allowing access to the underground environment. Furthermore, a person can be contained in the Lamproom if he/she does not return all their equipment after a shift. The system therefore enhances both safety and security of the daily operations of personnel and equipment. An extensive variety of reports are available that include amongst others, a daily exception report on various pieces of equipment, a backup shaft clearance report as well as allocation and failure reports. The system configuration also offers remote or web-based access which allows management staff as well as mining regulatory bodies (DMR) to generate these reports from any location linked to the internet.

Schauenburg has designed and engineered its offering to the mines to be modular in concept and application. The system can be easily modified to meet mine and site-specific requirements. Schauenburg also offers a complete solution of the layout and design of the SCT. Production is of core value to the mine, and the SCT is designed in such a way that miners can start and end their shifts with no interference or hold up in the SCT.

The increasing complexity of South African mining, results in a greater need for skilled personnel in the management of the SCT and associated equipment. Schauenburg recognises the need for specialised skills in order to operate and maintain such systems. A trained workforce that leverages OEM expertise provides a competitive advantage in the marketplace and reduces the risk to the mine for operational safety. Skills development programmes have been established to ensure that site personnel are competent to accept ownership and responsibility of the requirements needed for the Safety Control Terminal.

Schauenburg’s footprint extends to all provinces locally in South Africa and provides the platform for which SATS can expand its services to cater for the specific needs of each client.

Schauenburg’s Advance Technical Services field of expertise includes:

- Full turnkey projects
- Lamproom infrastructure design and layout
- Complete Lamproom management solutions
- Operations and maintenance management
- Technical support
- Customised training solutions
- Auditing and compliance services
Overview

1. Lampsman Administration Office
2. Visitor Training & Induction Facility
3. Personal Protective Equipment Issue & Control Bay
4. Cap Lamps & SCSR Self-Service Square
5. Gas Detection Instrumentation Issue & Control Bay
6. Cap Lamp and SCSR’s Spare Issue & Control Bay
7. Equipment Repair & Service Centre
Special Equipment Issue & Control Bay

Automated Access & Asset Management System

Instrumentation Testing Area

Control Room or Underground Control Terminal

Gas Cylinder Storage Compartment

Lamproom Store Room

Time & Attendance
Complete Lamproom Management Solutions

From Lamproom to Safety Control Terminal

Managed services

All SATS solutions are underpinned by our Managed Services offering. It can be tailored to meet our clients’ requirements, whether the need is for a single component of the services on offer or a full end-to-end solution. Our solid vendor and contractor relationships, coupled with professional project management capabilities, enable the successful delivery of turnkey Lamproom Management solutions across multiple technology platforms.

Our services includes:

- Operation and management of the Lamproom 24/7, 365 days per year
- Manage and maintain portable mine lighting equipment i.e. cap lamps and loco-lights
- Manage and maintain self-contained self-rescue packs (SCSR)
- Manage and maintain portable gas detection instruments (GDI’s)
- Manage and control special equipment i.e. first aid bags
- Condition monitoring services of self-contained self-rescuers (SCSR’s)
- Maintenance of Lamproom infrastructure: i.e. battery charger racks, access control (turnstiles etc.), time and attendance systems, gas calibration stations, workshops, management software etc.
- Compliance with the law and code of practice that is specific to each shaft/mine

Our project management ethos has earned us a reputation of trust and dependability.
We pride ourselves as being a leader in the field of turnkey lamproom management services.
Operations & Maintenance Management

Unique Tailored Services to Suit Individual Needs

SATS Operation and Maintenance Service (O&M) adds value to processes by offering tailored services according to each customer’s needs. The service is delivered through extensive expertise of service management, technology, process and IT systems.

The purpose of our O&M service is to enhance our client’s equipment performance, reliability and availability to enable them to remain focused on their core competencies, while relying on SATS’s expertise, capabilities and value added services.

Our O&M Services are available for all Schauenburg technologies.

Maintenance Services

SATS Maintenance Services provides a 24/7 routine and corrective maintenance capability.

The key benefits of SATS maintenance offering’s are:

- Improved system reliability
- Decreased system downtime
- Reduced replacement costs
- Highly skilled and experienced teams
- 24/7 support
- National coverage in South Africa and other African countries

SATS Maintenance services allow you to remain focused on running your core business.

Customizable solutions that grow with your needs.
SATS provides a holistic range of auditing services (based on more than 30 years of experience) from legal compliance to integrated Lamproom best practices as well as quality audits. Our audit methods are unique but at the same time consistent with the latest MHSA and DMR regularities as well as in accordance with the mines “code of Practice for Lamprooms”.

Holistic range of auditing services.
Managing Safety & Lamproom Equipment

Using cutting-edge software combined with innovative technology and proven hardware, Schauenburg has created a means of managing both safety and Lamproom equipment.

The LMS/AMS is a comprehensive database and software suite that offers a total management solution ensuring compliance with DMR regulations regarding all Lamproom operations.

The system is integrated with the mine’s existing T&A database and a passive RFID solution. This allows for the implementation of business rules that would block a person from going underground if they do not have all their safety critical equipment with them.

The system can also verify that all safety critical equipment that are subjected to functional testing are in good working order before allowing access to the underground environment. Furthermore a person can be contained in the Lamproom if he does not return all his equipment after shift. The system therefore enhances both safety and security of the daily operations.

An extensive variety of reports are available that include amongst many a daily exception report and backup shaft clearance report.

The system configuration also offers remote client access which allows management staff to generate these reports from the comfort of their office.
Complete tracking and visibility
SATS offers a complete solution of the layout and design of your Lamproom. We realise that production is of utmost importance to the mine, and the Lamproom has to be designed in such a way that miners can start and end their shifts with no interference or hold up in the Lamproom.

We address key factors such as traffic flow, entry and exit routes, work stations, asset placement and facilitate legal requirements on instrumentation within the building. To speed up the process of managing equipment, our design gives you an easy, secure layout of your Lamproom that focuses on efficiency and practicality.

We manage the process from conception to completion, and our result is a fully functional facility to accommodate all your needs. Options are also available to accommodate development phases by means of temporary structures to address basic Lamproom activities.
Transform your Lamproom into a Safety Control Terminal
A trained workforce that leverages OEM expertise is a competitive advantage in the marketplace. Employee training is one of the most important investments a company can make. As customers acquire increasingly sophisticated and complex technology to meet their production needs, technical competence becomes more important for safe operation and maintaining system reliability.

Schauenburg answers this customer need by providing instructors that are field-seasoned experts who combine their understanding of theory with practical experience. The quality training that they provide is a prerequisite for improving the skills of operation and maintenance personnel to assure safety and superior equipment availability.
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