

Blasting NEWS

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Mining Services

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Wealth Unearthed

We inhabit a special planet. One that sustains life. A planet that is abundant in hidden riches. AEL Mining Services is dedicated to creating explosives technologies that allow us to unearth wealth through meticulous care and the supply of carefully controlled energy. Our attention to customer needs and continuous innovation has ensured our survival in the demanding African market, and this well established and successful footprint underlies our expanding international business partnerships. Safety and productive blasts are, and will always be at the top of our agenda, ensuring that AEL remains in tune with its customers, delivering peace of mind at strategic and operational levels. As we remain committed to being the partner of choice in the mining industry, AEL will continue playing its part in creating prosperity for our customers, our communities and nations we impact on.



Mining Services

Tel: +27 11 606 0000 email: company.email@aelms.com web: www.aelminingservices.com

Editor's Note

Welcome to the final issue of *Blasting News* for 2011. As the year draws to a close, we reflect on our successes and offer a sneak preview of our forthcoming innovative technologies.

Innovation is key in order to remain at the helm of being relevant to the market we serve. Therefore, we are constantly on a drive to update and improve our existing product portfolio while keeping our finger on the pulse of future trends.

In this issue, we introduce a range of innovations such as the recently unveiled third generation (3G) Shock tube Uni-Delay detonator - a first of its kind in Africa, The Hot Hole Monitor which is the latest in a series of developments that will provide continuous monitoring of temperatures within a hot blast hole and our ground-breaking Vertical Drop system that is set to revolutionize explosives emulsion transportation.

In our quest to ensure safer mining operations, we reflect on the successful trials of our DigiShot Plus system at sites in Southern Africa, Africa and internationally and enlighten you about AEL's own Be Safe, Be Happy campaign that promotes safety and health on customer sites with the objective of achieving zero harm to anyone involved.

For 2012, we express our commitment to being a dedicated and innovative organisation that serves the needs of its customer base by ensuring that we continuously reflect 'care, courage and confidence' in all our activities.

We hope you enjoy this issue and we welcome your feedback.

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Editor's Contact Details

Eubulus Pillay
Blasting News Editor

Tel +27 11 606 0313
Fax +27 11 605 0000
Email eubulus.pillay@aelms.com
Web www.aelminingservices.com

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AEL innovates to ensure safer mining operations

Introducing the 3G Shock-Tube Uni-Delay LP by Derek Nell



Derek Nell

“This innovative and reliable product will benefit narrow reef mining applications immensely”

In line with ensuring ongoing innovation and meeting customer requirements, AEL has recently unveiled the third generation (3G) Shock tube Uni-Delay detonator, a first of its kind in Africa.

This product has to date been tried and tested at leading narrow reef mining operations to ensure that it meets the exacting standards of the industry, demonstrating the group's dedication to on-going innovation that ensures its

customers unearth wealth with meticulous care.

The 3G Uni-Delay has, like all AEL's products, undergone rigorous testing where it was validated in terms of performance for legal compliance by regulatory bodies that include CIE and DMR.

The AEL Shock Tube Uni-Delay LP assembly dates back to the early nineties when the first generation assembly was introduced. The 3G assembly is a major modification of its two predecessors - it was designed and manufactured at AEL's Initiating Systems Automated Plant (ISAP) in Modderfontein and is a completely automated product with less than 0.5 gram of lead compounds.

The fact that it has been produced in a fully automated plant is testimony to its robustness and ability to perform to meet expectations.

“This innovative and reliable product will benefit narrow reef mining applications immensely, and boasts a first for shock-tube, as we have removed lead solids that impact significantly on the mining workplace and processing plant environment. The removal of lead solids from delay detonator assemblies could lead to a reduction in excess of

60tons a month in the South African mining environment for AEL's customers alone,” says Derek Nell, Shock Tube Product Manager.

“Moreover,” adds Nell, “this product has an oil resistant shock tubing that incorporates a 4000ms delay in-hole detonator, which is crimped onto one end and a shorter 200ms out-hole delay detonator on the other end. This delay timing combination ensures a 20 hole burning front, minimising the risk of cut-offs due to fly rock and fall of ground incidents near the detonation front.”

Innovative features meet customers' needs

The AEL Shock Tube Uni-Delay LP features an ergonomically designed orange friction fitted connector clip, which contains less plastic than its predecessor. This clip can hold up to three shock tubes simultaneously. Despite the compact size, it remains robust and is quick and easy to use.

“Through our Research and Development division, we constantly seek innovative ways to bring to market products that will improve the way we work in terms of safety, environment, productivity, efficiency and consistency. We are excited by the fact that this upgraded product meets these requirements and in instances exceeds expectations,” comments Nell.

“This assembly was also designed and developed with narrow reef mining blasting crews' requirements in mind. It has the ability to withstand harsh underground mining conditions and ensures ease of use through quick and efficient coupling, and the visual ability to easily identify and correct any discrepancies that may occur in coupling. Additionally, with the removal of lead solids, offering mining crews reduced exposure to harmful lead contaminated dust and gasses on re-entry and in the work place during day to day activities, is an added benefit that we know our customers will appreciate.

“As a company, our purpose is to unearth wealth by providing the industry with carefully controlled energy; in line with these core values, we strive to continually improve the sustainability of our environmental performance and our commitment to the Responsible Care initiative. The 3G Shock Tube assembly was developed with these considerations in mind.



The smaller 3G plastic connector



3G Connector on Shock Tube

“We further encourage site personnel to take meticulous care of the environment in which they operate and this is also extended to our customers. This new product will assist our customers to operate safely, effectively and efficiently with due consideration to the environment,” adds Nell.

“As this product is manufactured in a highly automated process, each assembly is checked by means of accurate optical techniques monitored by our quality and metrology department, which leads to improved quality systems that are consistently robust, reliable and accurate,” concludes Nell.

An industry first

The AEL 3rd Generation Shock Tube assembly contains rigid delay elements as a housing for the pyrotechnic delay compositions.

AEL's 3G Uni-Delay detonator is versatile and can reliably initiate other shock tube assemblies, as well as Anflex; cartridge and repumpable emulsions; watergels and pentolite boosters. Use of AEL's 3G Shock Tube Uni-Delay LP can benefit customers in various ways, the most important of which include consistent fragmentation and improved face advance. The fact that this product is unleaded means that with reduced lead particulates and no solids in the ore, the extraction of the platinum group metals will be easier.

AEL firsts

- 2010 - AEL pioneers spray-dry technique in the production of explosive pyrotechnics, a first ever for Africa
- The AEL 3G Uni-Delay LP assembly has less than 0.5g of lead as opposed to approximately 19g in its predecessor – another first for the explosives' industry
- AEL's quality and metrology department ensures quality checks from beginning, during and at the end of the product manufacturing process – for each and every assembly produced on the automated machines - yet another first for the industry.

AEL Spearheads Safety Solutions in Hot Hole Mining Environments

By Sean Slabbert & Larry Wilson



Sean Slabbert

Larry Wilson

"The Hot Hole Monitor is the latest in a series of developments that will provide continuous monitoring of temperatures within a hot blast hole"

The Context

Smouldering or burning coal deposits represent a serious problem in operations associated with the surface mining of underground coal seams. In some parts of South Africa, underground coal fires have been burning unabated for years.

These sub-surface fires present a real challenge to mining operations. Blast holes drilled down into the coal to facilitate blasting operations, however, present a more specific hazard. Despite a range of pre-drilling practices,

operating procedures for blasting in hot areas, however there have been several incidents where primed – but not charged – holes have detonated prematurely.

In an effort to prevent premature and uncontrolled detonation of the explosives column, AEL has consulted extensively with its coal mining customers to develop a suitable solution for use on hot benches. AEL engineers have



A typical Hot Hole

contributed to risk assessments and conducted research into the development of explosives and initiating systems suitable for use in this environment. "As a result, we have developed and recommended safe hot-hole blasting procedures, as well as providing systems that greatly improve safety on hot benches," says Sean Slabbert.



Coal Mining

such holes, while initially appearing cool and safe to load with explosives, can still undergo sudden and unpredictable escalations in temperature.

As a result, hot holes pose a very serious problem for the coal mining industry, and the problem is escalating as coal mining operations are expanding into areas where underground fires exist. The heat, smoke and high temperature gases escaping from the burning coal deposits below can lead to unseen changes in the condition of affected blast holes. In a worst-case scenario, this can result in premature and uncontrolled detonation of the explosives column.

Such an event could take place while the operators are still working on the bench. Most mines have excellent

Hot hole monitoring

One outcome of AEL's R&D programme is the Hot Hole Monitor, a disposable, downhole temperature monitor that immediately warns personnel in the vicinity of "hot holes" of the increasing thermal hazard. A product of rigorous field testing, the Hot Hole Monitor is the latest in a series of developments that will provide continuous monitoring of temperatures within a hot blast hole and can provide an early audible warning if the temperature should exceed predetermined limits.

The easy to use Hot Hole Monitor is an innovation from AEL that addresses the safety threat posed by hot holes in coal mining and will go a long way to reduce risks to blasting teams in the coal mining industry. A robust temperature

monitoring device (thermocouple) unrolled from the monitor is attached to the downhole pentolite booster and lowered into the hole. With the monitoring tip now in position, the Hot Hole Monitor can be activated by pulling out the detachable tab. The unit is then on guard.

At 60°C, the Hot Hole Monitor immediately alerts bench personnel that a once safe hole is now hot through a discontinuous alarm. When the hole reaches 80°C, a continuous alarm warns the bench crew that the hole is now dangerously hot and the bench must be evacuated.

It also features both audible and visible confirmation that the unit is functioning correctly. Additionally, the device warns the operator if there is a fault or break in the thermocouple lead line.

Using safer explosives

In addition, AEL has invested significant resources to develop a robust emulsion formulation that renders superior performance in hot-hole applications that deals with the hot-hole problem at source. "As a result of the iterative process followed by the company's R&D department," says Slabbert, "we can now offer the market the S200Eco range of emulsions.

The S200Eco emulsion formulation contains used or recycled oil as well as calcium nitrate, together with a specially formulated surfactant that provides emulsion stability and performance when used in hot holes."



S200 Eco Range of emulsions

According to Slabbert, the S200Eco range of emulsions has a minimum burning pressure (MBP) of more than 70 bar, meaning that it is less sensitive to heat under pressure. The emulsions are formulated to be heat resistant to temperatures in excess of 200°C, but ultimately the weakest link in blasting hot-holes is the melting of the initiating system.

AEL has developed ways around this initiator shortcoming as a further innovation towards reducing safety risks in hot-hole blasting.

What causes the burning temperature of coal to increase?

In the absence of sufficient oxygen, coal is consumed by fire at a relatively slow rate. However, if oxygen is introduced, perhaps via a drill hole or a crack or fissure,



AEL's Hot Hole monitor

the combustion rate and the burning temperature of the coal can increase significantly. Should a blast hole reach the critical temperature, any explosives placed into the hole can detonate. This may be life-threatening if there are personnel within range of the blast or its flyrock.

Hot hole coal mining practice, although mine specific, dictates that during the charging up process, hole temperatures should be measured before any loading of explosives is attempted. All holes hotter than 80°C should be abandoned and not charged. Holes between 60 and 80°C must be cooled down by means of water or other chemicals, such as PyroCool, a heat-dissipating, flame-retardant gel.

If the cooling operation is successful – lowering the temperature to less than 60°C – such holes can be loaded. Holes with a temperature between 40 – 60°C, are designated as hot holes and should be charged last and fired as soon as possible during the shift.

The possibility that despite all precautions, the reheating of a drill hole might still occur, has given many a mine manager sleepless nights. A reheated drill hole, perhaps by now also charged with explosives, could expose any on-bench loading crew in the vicinity to real danger.

Explosive products capable of working safely and effectively above 100°C are urgently required, but their commercial availability may still be years away.

Downstream Benefits Through Ground-breaking Emulsion Transportation



Mark Cross

"The vertical drop method is aimed to make it easier for a miner to unearth wealth with meticulous care."

Narrow reef applications in underground mining, relied on the conventional process of transporting explosive undergrounds.

Historically, Mobile Charging Units (MCUs) travelled approximately 5 kilometres to deliver the emulsion to the underground operation. This

resulted in fuel and maintenance costs for the trucks, risk to workers, as well as inventory control issues.

BathoPele Platinum mine, which is situated North West province in South Africa and consumes a large amount of pumpable emulsion, recently tried the revolutionary vertical drop transportation of emulsion some 208 meters deep to its underground operations.

This followed the successful completion of a 40-metre vertical drop trial at the Steelpoort Platinum mine in 2008 and a rigorous evaluation of the effectiveness of delivering emulsions underground through a vertical pipe by BathoPele, AEL, DMR, CIE and RSV Consulting.

"The drilling and installation of the emulsion and sensitiser pipers started in 2010 at BathoPele and the first emulsion was pumped underground early this year. RSV Consulting are the project engineers for the BathoPele project. We anticipate that soon we will be using the same system on the mine's other shaft," says Mark Cross, AEL's Underground Bulk Emulsions' Product Manager.

According to Cross, underground mining applications are faced with many challenges and require sophisticated technologies.

"Our AEL team understands these challenges, and recognise that to extract valuable minerals such as platinum and gold, mining is going deeper and deeper and to be able to reach these workings, innovative solutions are imperative.

We currently can deliver up to 10 tons of emulsion through the vertical pipe in 20-minutes as opposed to delivering 10 tons using two vehicles over a two

hour time span. We are researching technologies that will enable us to transport emulsion up to 400metres deep."

Frik Fourie of BathoPele comments, "Safety is a priority in our industry; time is of the essence and the bottom line is the imperative of every business. Through this revolutionary means of emulsion transportation from the surface to the underground workings, we realised time savings, in terms of inventory control and reduced interface with explosives, which adds to our safety. In the long term, we will see better results in terms of asset care and utilisation, which translates to improved assets' lifecycle."

Convenience of the BathoPele's Vertical Drop

The vertical drop – a first for the underground mining environment across the world – is designed with the customers' needs in mind. In terms of inventory control, most assets are condensed into one place, contained and ring-fenced in underground workings.

The emulsion gets measured and housed in the charging area on the surface. The emulsion and sensitiser lines are secured in housing with pipes, suspended in 250mm borehole from surface workings, and ultimately delivered into three 18-ton storage tanks through its line and the sensitiser into a 1000 litre storage tank. This means of emulsion transportation is simple, uncomplicated and bulk efficient.

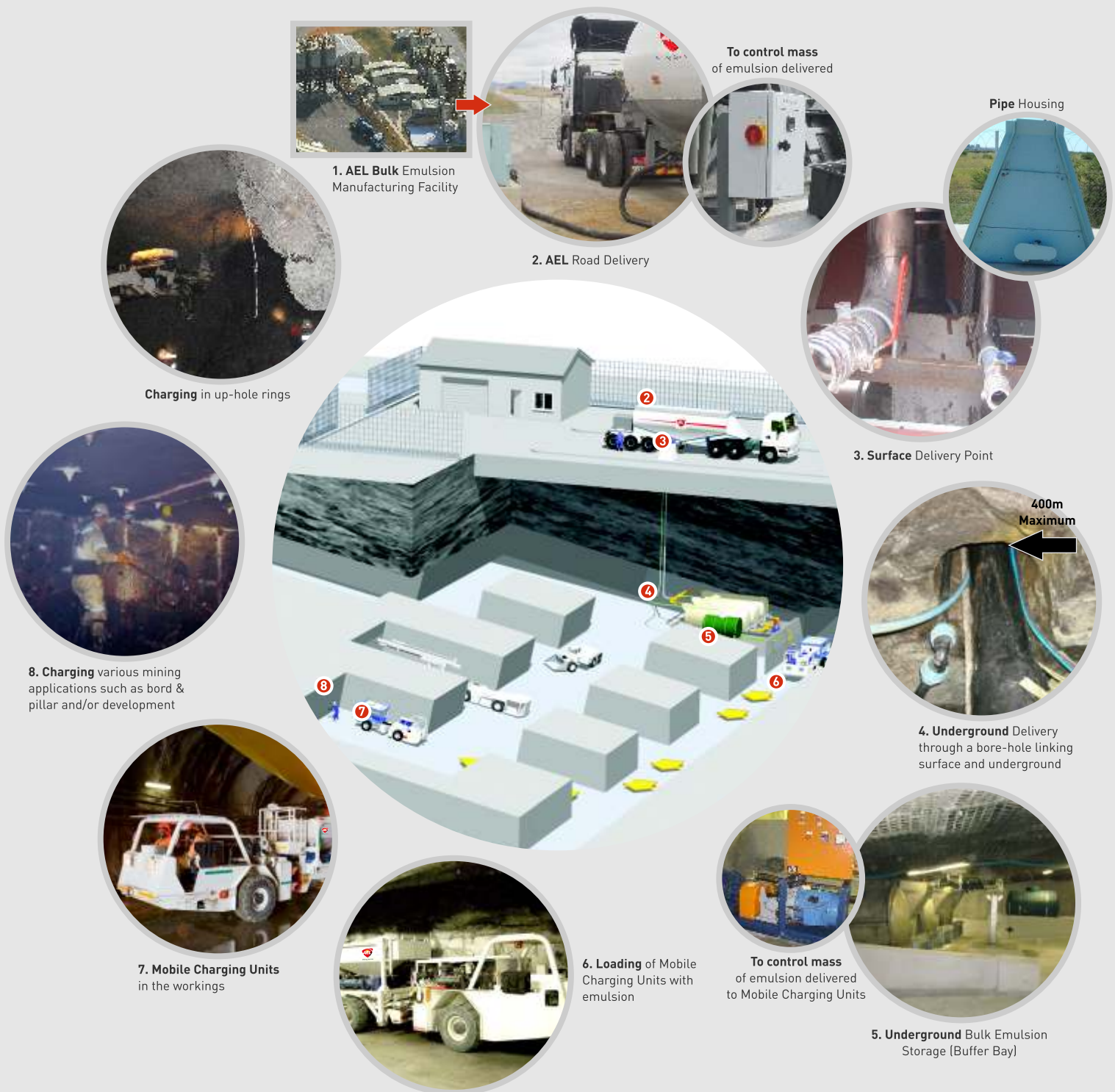
Emulsion explosives transported via vertical drop complies with mining and explosives regulations providing mines with peace of mind regarding legislative standards.

According to Cross, AEL works with consultants that specialise in emulsion rheology to develop a



Emulsion being pumped directly to storage tanks underground

How the Vertical Drop system works



product specific solution that accurately determines the flow rates and pipe pressures at different underground mining applications. "This means that the design of pipes is product specific and results in a fit for purpose explosive for any application in stoping and narrow reef mining sectors."

This innovation will save mines money and the investment in equipment, which increases the lifecycle of assets, as well as offers an optimised and enhanced delivery channel. "In conclusion," says Cross, "the surface hub model is secured underground and this results in further optimisation and flexibility of deployment, which

translate into unit savings and efficiency."

"The vertical drop method is aimed to make it easier for a miner to unearth wealth with meticulous care."

The competitive option

AEL Tried and Tested 3G Electronic Detonators



Alejandro Contreras

“Excellent results of the trials have placed AEL’s DigiShot Plus system as a competitive option when looking for a blasting initiation system with innovative technology”

Launched in 2007, AEL’s third generation electronic detonators are revolutionising the future of mining. Over the past 18 months, AEL completed trial blasts using the DigiShot Plus system at sites in southern Africa, Africa and

internationally.

One of the sites that tested the system was BHP Billiton’s Cerro Colorado mine, located in the North of Chile, where AEL South America completed five successful trial blasts.

The DigiShot Plus system, designed and manufactured in South Africa in collaboration with DetNet, is geared for medium to large surface mining operations, and was the newest electronic delay detonator technology available in the South America market in 2010. With the mine’s previous system, logging could not

commence until after the Mobile Manufacturing Units (MMUs) had left the bench to prevent damage to the surface harness wire.

The DigiShot Plus system allows logging of the holes to start even while the MMUs are still busy charging, resulting in less downtime for the earth moving equipment, such as loaders and draglines. The trial comprised 614 electronic detonator initiations distributed in 5 blasts according to BHP Billiton’s high quality standards’ requirements.

“The excellent results of these trials have placed the AEL’s



The AEL Mobile Manufacturing Unit



DigiShot Plus System

DigiShot Plus system in the Chilean market as a competitive option when looking for a blasting initiation system with innovative technology,” says Alejandro Contreras, AEL’S operational manager – Latin America channel partner.

With safety being a key driver at AEL, the rugged wire of the DigiShot Plus system minimises misfires. The powerful initiation system using Radio Frequency communication can initiate a blast at a distance over 3,500 metres, thereby minimising risk and injuries to on bench staff.



Powerful Features

AEL’s DigiShot Plus system offers flexibility, RF power and convenience, which make it a serious performer in the large-scale mining technology arena. Due to the robustness of this product, it can withstand extreme weather conditions from below 30 degrees to +80 degrees celsius.

“To date, a substantial number of large surface mining environments have adopted the DigiShot Plus system and are reporting downstream and upstream benefits including

improved and consistent fragmentation; controlled muckpile profile and placement; excavation profile and stability improvements and reduced mining costs and safety risks,” says Carlos Goncalves, AEL’s Product Manager – Electronic Initiating Systems.

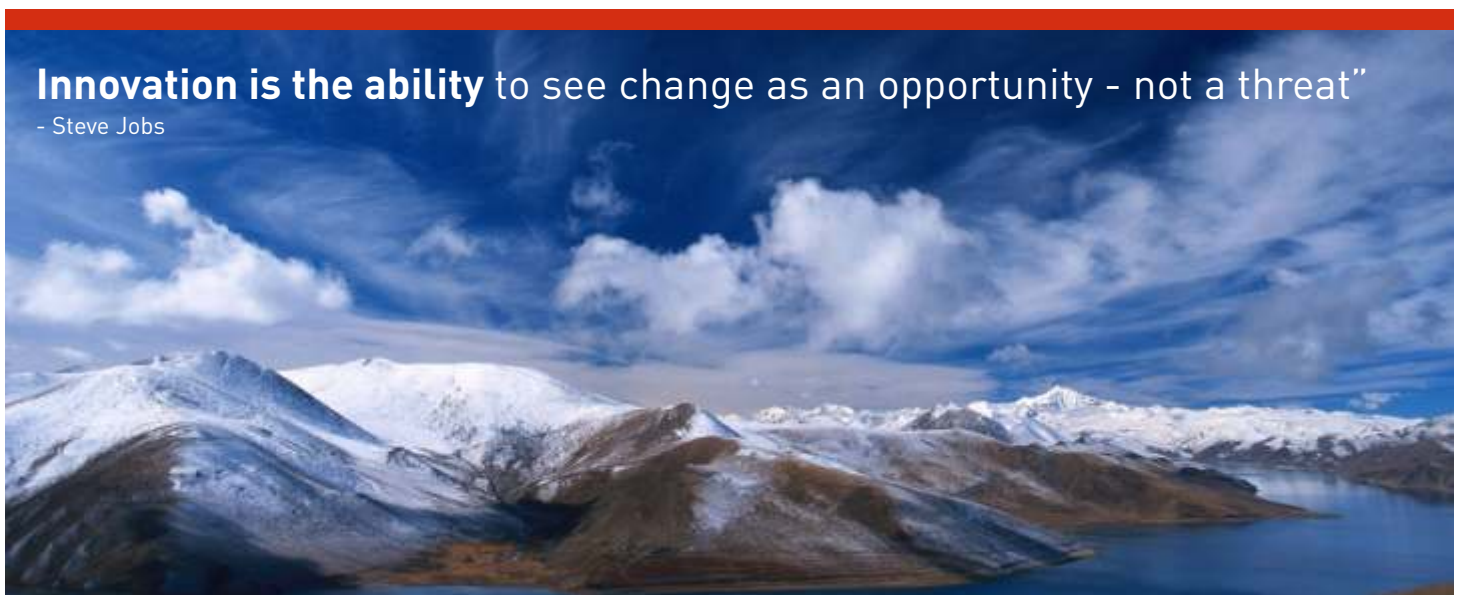
“Safety is a key

driver at AEL

Mining Services”

Innovation is the ability to see change as an opportunity - not a threat”

- Steve Jobs



Packaging, a promotional element, now entrenched in Products to Markets team



Derek Anthony

The packaging portfolio has been incorporated into the Products to Markets division at AEL with the objective of streamlining processes at the company, following a decision taken in August 2010. The team has now expanded to include Marius Mackay, who is currently the new packaging custodian for the company with the previous custodian – Sherlock Holmes, who serves as deputy, as well as advisory.

Qualification and certification of packaging - Compliance

As stipulated in the Explosives Act, it is required that all explosives packaging is re-certified for quality and durability once every year. "We use test facilities that are provided by SABS and TEN E. Cost for each package test can range from R4500 per box to R7500 per bulk bag. This testing is usually spread out over the year. Testing includes water absorption, drop tests and stack tests," says Derek Anthony, Group Manager, Products to Markets at AEL.

Certificates are kept by the packaging custodian and are available on request. These certificates will be kept on the Edge platform for everyone's perusal. "We use numerous suppliers who are registered as approved vendors to our company. These suppliers are carefully selected and, where possible, audited to ensure compliance to the AEL standards. All issues are handled by the packaging department in close liaison with purchasing and supply managers," adds Anthony.

Packaging projects

New logo and address changes

In 2010, the new AEL Corporate Identity was launched and this necessitated a massive drive to overhaul all packaging with the new livery.

This translated to over three hundred packaging specifications revisions. New artwork and stereotypes had to be made for all boxes. This was no mean feat given the iterative process of revision, change and approval with input and action from Packaging, Production, Procurement, Product Management and Document control. The process started in August 2010 and was completed by Mid-November 2010 with the first new boxes bearing the new logos rolling out in December 2010.

The company became AEL Mining Services, which meant another process of changing packaging. "Stereos were altered with the new details and specifications were completed in June 2011. The new boxes reached the production lines in October 2011," says Anthony.

With the change of the new AEL address from African Explosives Limited to AEL Mining Services Limited the process, not as intense, started all over again. All specifications had to be changed and approved again, with stereotypes to be altered with the new detail. The specification changes were complete by end June 2011. New boxes reached production lines during September /October 2011.

Update on new projects

1.4S classification for ShockTube assemblies: Initial testing is complete and looks promising. Testing of the configuration is currently underway.

New Waste detonator box: developed and will replace a total of four boxes used as waste boxes. The cost saving is substantial averaging R6 per box.

New Lead Rod Delay Element Box: a customer requirement exists to

develop a box for the shipping of elemented delay extruded lead rods to South America. This box was developed and has passed the UN Certification requirements. The tests related to sealing, humidity subjection and firing were all completed successfully. The only outstanding action is to complete a risk assessment to introduce the process into the production areas. The completion date for this project was set for the end of October 2011.

Stemming Material Packaging: Mark Cross and his team identified a requirement to develop a process to utilise excess emulsion explosives underground. This was achieved by de-sensitising the explosive so that it can be used as a stemming material by the customer. Packaging had to be developed for this product. Existing boxes and buckets were identified as packing material, which negated development costs for new boxes and a bucket. The complete new packaging material was available from end September 2011.

1.4S Packaging for Elemented Detonators: During the development of the original box CB03/624 a requirement arose that detonators be packed with a rubber sleeve. This requirement became a necessity and the packaging method had to be adapted. This led to some of the boxes bulging, as packing material had to be used in order to contain the sleeves in the detonator. This also resulted in a reduction in the quantity of detonators that could be packed into one box (200 instead of 224). Labels are placed on the box to ensure that the new quantity and mass of the box accurately reflects on each box. A new box has now been developed, as well as new inner packaging and this will make the packaging of 224 detonators possible again and reduce the bulging of the box. A second box is also being investigated that will accommodate 400 detonators per box.

Other projects: A number of other projects are currently underway. Day-to-day packaging issues are dealt with as a matter of course.



We never know the worth of water till the well is dry. –Thomas Fuller

ISO14001 LISTING FOR ZIMBABWE

AEL is proud to announce that its sites in Zimbabwe join the ISO 14001 listing, following the SABS audit in August, where the sites only received one minor finding.

AEL's core values include striving to continually improve the sustainability of the environmental performance. "With 17 businesses in the group, we ensure that our environmental policy standards, programmes and initiatives are rolled out in all our operating sites in South Africa, Africa, South East Asia and South America," says Ellen van Dongen, AEL's Group Environment Manager.

In demonstrating its commitment to working with its customers to unearth wealth with meticulous care, the

company embarked on a process of formalising its environmental management system in 2004, with the first ISO14001 certificate received in February 2006 for seven listed sites. These sites were the main manufacturing site at Modderfontein, Witbank (now Emalalheni), Mankwe, Potgietersrus (now Mogalakwena), Nelspruit, Lichtenberg and Thabazimbi.

In 2009, the listing was extended to 27 sites to include sites in Gauteng, Limpopo, Mpumalanga, Kwa Zulu Natal, Western Cape, Eastern Cape, North West Province and Northern Cape. "Despite challenges experienced where local legislation is not as stringent as that in South Africa where support services such as local waste disposal facilities are not available, AEL managed to enlist sites outside of South Africa that include four sites in Botswana, three sites in Zambia and five sites in Ghana and

now Zimbabwe," says van Dongen.

Apart from the main manufacturing sites at Modderfontein and Mankwe, most of AEL's facilities are located on mines many of whom have their own ISO14001 listing. "One could ask why AEL would go to the effort of obtaining its own listing for its operations," says van Dongen. She explains that this is done to set high standards and to demonstrate that all AEL personnel operate in an environmentally responsible manner.

"This initiative should also give our customers the assurance that we will abide by the mine's environmental requirements and so support the retention of their ISO14001 listing."

SABS
ISO 14001

Blasting and Safety – The Missing Link

by Henry Merrick

AEL's international 'Be Safe, Be happy' on track

In a bid to demonstrate commitment to ensure safety and health related issues are held in high regard, AEL launched the 'Be Happy, Be Safe' campaign in 2010 – a long-term programme which focusses on the overall improvement of workplace safety and the promotion of working together.

The first phase of the programme was aimed at raising awareness and as part of this campaign, AEL identified the main contributors to the safety record from an injury perspective over the years and named these the 'Big 5'.

The Be Safe, Be Happy campaign promotes safety and health requirements on customer sites with the objective of achieving zero harm to anyone involved, anywhere, under any circumstances. The three major concepts that underpin this campaign include:

- ensuring that the safety switch is firmly on
- encouraging people to carry out tasks that they have been trained on and
- promoting strong operational discipline among workers to ensure that they are always following approved operating procedures

Henry Merrick, AEL's Group Safety and Health Manager comments, "Safety is the key driver in the mining industry and by launching this campaign, we want to make our staff aware and alert. By adhering to the health standards prescribed, our behaviour is extended to our customers, contractors and all stakeholders.

The identified Big 5 are: **impact injuries, loss of balance injuries, fires and explosion, chemical handling injuries and driving-related injuries.** Any of these injuries can lead to fatalities, which is what we try to avoid completely in our environment and in our industry.

5 Bees represent the BIG 5 Injuries

Merrick explains the 5 Bees campaign, "We chose the Bees to represent the Big 5, as bees epitomise the type of people we are at AEL and in the mining fraternity. We strive to be hard workers, work as a team, protect each other and remain focussed on tasks at hand all the time. Importantly, if a bee stings once, it dies, which if applied to the mining industry translates to one mistake could be the last you make!"

"At AEL, we work hard to ensure that safety gets the attention it deserves", stresses Merrick "so we cannot afford to make one mistake or to take chances. In addition, we do not tolerate those who take shortcuts and put their own lives and the lives of people working around them at risk."

Impact Injury Reduction Programme

"We are pleased with the progress of

this campaign - the first phase is nearing completion and our next phase will commence within the next few months. This phase involves rolling-out the Impact injury reduction programme. This type of injury remains top of the list, so it is a priority to ensure that it decreases."

The impact injury reduction programme will include awareness and identification of injuries, as well as training, particularly for the trainers. This programme will highlight the five important tasks that people have to consider at the workplace: **Ask; Look; Think; Wear and Take 5.**

"For a safe working environment, it is important to be sure of what you are doing, so by asking, looking around to check for possible risks, thinking before acting and wearing the correct safety clothing (PPE) and rechecking, we would have taken a step closer to meeting our zero injury target," says Merrick.

"We will keep you informed on the progress and if you need more information or help, please do not hesitate to contact us. We also urge our customers to share ideas with us on how we can assist each other to ensure that safety standards are adhered to," he concludes.



The Safety Campaign based on Take 5



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Contact Directory

Southern Africa

Johannesburg
(T) +27 11 606 0000

Open Pit and Massive
(T) +27 11 606 0955

Gauteng Depot Quarry Services
(T) +27 11 606 3523

DetNet
(T) +27 11 606 0890

Mokopane
(T) +27 15 491 1328

Mogalakwena
(T) +27 15 418 2189

Witbank / Emalahleni
(T) +27 13 690 1242

Venetia Mine
(T) +27 15 575 2335

West Wits Sales
(T) +27 18 788 3390

Zomerveld
(T) +27 18 788 3390

O’Kiep
(T) +27 27 713 8597

Rustenburg Bushveld
(T) +27 14 558 2870

Mankwe
(T) +27 14 558 2800

Klerksdorp
(T) +27 18 477 1062

Kwa-Zulu Natal
(T) +27 31 266 4303

Nelspruit
(T) +27 13 747 2278

Steelpoort
(T) +27 13 230 8020

Kimberley
(T) +27 153 802 6352

East London
(T) +27 43 745 2169

Cape Town
(T) +27 21 842 3901

International

Botswana
(T) +267 393 8133

Zambia
(T) +260 966 990 945/9

Lesotho
(T) +27 11 606 0505

Mauritius
(T) +230 269 1650

Indonesia
(T) +562 928 1300

Egypt
(T) +20 178 661 138

Zimbabwe
(T) +263 429 16 315

Ghana
(T) +233 302 762 633

DRC
(T) +243 99 5366 257

Namibia
(T) +264 64 403 463

Tanzania
(T) +255 28 250 2927

