

Mine Health and Safety Council



***Free State Tripartite
Explosive Subcommittee***

- Attendance Register
- Welcome
- Presentations
- Previous Minutes, Unresolved Matters and General
- Explosives Related Accidents / Incidents
- Closure / Information
- Next meeting venue: HARMONY IMS CANTEEN

Attendance Register

Present

• Andre Blignaut	- Phakisa # Explosives Co-ordinator
• Abrie Laubcher	- PRF Services
• Au Mafanti	- Phakisa
• Arno Meyer	- Tampself
• Albert de Beer	- GT Tamping
• Ben McIntyre	- GT Tamping
• Brian van Niekerk	- LH Lategan
• Daniel Tsubella	- AMCU
• Daniel Seekoei	- NUM
• David Lengau	- DMR Chairman
• Deon de Villiers	- Harmony Supply Chain
• Ezekiel Malele	- DMR HO
• Francois Viljoen	- Sasol
• Frik Botes	- AEL Mining Services
• Gert Barnard	- NXCO
• Garry Koekemoer	- Star Diamonds
• Hendre Koen	- SAPS
• Hendrik Swart	- AEL
• Hloksz Melamu	- Voorspoed Mlne
• Hennie Bester	- GT Tamping
• James Warnick	- Group OSH Mining
• Johan Fourie	- AEL
• JP Engelbrecht	- AEL
• Johan van Zyl	- OMT
• Johan Blignaut	- OMT
• Jumbo Berry	- PRF Services
• Justice Shelile	- Harmony
• Kagiso Maruping	- AEL
• Louis van Heerden	- De Beers
• Marius Scheepers	- Bambanani

Present

• Marius Pitzer	- Beatrix
• Mndilek Nokhele	- NUM
• Michiel Britz	- NXCO
• Pierre Roux	- PRF Services
• P Goussard	- Harmony
• Pieter Marcus	- Joel # Explosives Co-ordinator
• Philip Barnard	- SAPS
• Ron van Dijk	- Sasol
• Sybel Scheepers	- Harmony Operational Explosives
• Sekate Mokotso	- Magazine Master
• Tsietsi Khampepe	- AEL
• William McIntyre	- GT Tamping
• William Mokatsa	- AMCU
• Winky Dlamini	- NUM

Apologies

• Chante Zaaiman	- De Beers
• Comfort Mathenjwa	- Sasol
• Fiona Hawkins	- SAPS
• Hennie Jacobs	- Sasol
• Jan Deetlefs	- AEL
• Nicholas Rakotsoane	- Tshepong
• Roelof De Beer	- Sibanye
• Theo Steenkamp	- Sasol

Attendance Register

Absent

• Andre Vlok	- Lace Mine
• Andries Mashewula	- FTTHS
• A Mvunywa	- Bomba
• Brakkie Mogoloo	- C/Safety
• Brighton Mudau	- Petra Mining
• Chris van Deventer	- BME
• Chris Moulosi	- MHSC
• Dorus Hattingh	- Target 1 #
• Eliot Thabane	- BME
• Filtane Mawethy	- NUM
• Fikisile Mtshiywa	- NUM
• Gibson Mthombeni	- DMR
• Hennie Wagner	- Maxam
• Isaac Holamane	- De Beers NUM
• Justice Shelile	- Harmony
• Jafta Motaung	- Tshepong #
• Joseph Lengana	- Sasol
• Joseph Lengana	- Sigma
• Joseph Mosholi	- AMCU
• Jacques Du Plessis	- Phakisa
• Jan Swanepoel	- Solidarity
• Jacques Jooste	- Star Diamonds
• Khetheng Khetheng	- Bambanani #
• Katlego Mathibe	- Harmony
• Khwele Dayiman	- NUM
• Letsema Monyobi	- FTTHS
• Louis Jonker	- Phakisa
• Luka Motsamai	- AMCU
• Laurence Rogue	- Target
• Lekhatle Vitalis	- Sigma (NUM)
• Marcus Maree	- Tshepong
• Mmiki Modisadife	- Sibanye Gold
• Motseki Mogorosi	- Masimong 5 #
• Matlhoko Maruping	- NUM
• Motlatsi Meloba	- FTTHS
• Mabonang Ramajooa	- AMCU

Absent

• Mbavhalelo Raloswina	- DMR
• Mvuselelo Bandezi	- Tshepong
• Ntandazo Siqwala	- Phakisa #
• Nick Engelbrecht	- Harmony
• Naas van Eck	- Unisel
• Oriel Nthane	- Target 1 #
• Paul van Rensburg	- Sasol
• Paul Thorpe	- Peakstar
• Petrus Lerohow	- AMCU
• Refiloe Nyelele	- Safety
• R.S. Ramoholi	- Phakisa (NUM)
• Schalk Scheepers	- Safety Manager Beatrix
• Sello Mabote	- AMCU
• Sam Bereng	- Sibanye
• Simon Mahungele	- Sasol
• Seatholi Letube	- UASA
• Sizwe Buthelezi	- NUM
• Sibonelo Msali	- UASA
• Sophie Seakhela	- NUM
• Thabiso Mpotu	- Harmony
• Thandi Radebe	- FTTHS
• Thabiso Mokete	- NUM
• Thabo Nwone	- AMCU
• T Lerotholi	- AMCU
• Themba Ngobeni	- Beatrix
• Tsepo Segwathe	- Petra Diamonds
• Tom Marx	- OGM Tamp
• Ti Mokhetai	- NUM
• Tsepo Mohapi	- UASA
• Teboho Makhetha	- Unisel(NUM)
• Tsheqo Mnisi	- NUM
• Vincent Francis	- GT Tamping
• Vakalisa Ntsri	- AMCU
• William Tsikany	- Unisel (NUM)
• William Du Plessis	- Peakstar

1. The chairman welcomed everybody and thanked all committee members for a successful year.
2. The chairman noted that this is not a formal meeting, but merely a year-end closure to thank everybody for their participation.
3. All members were requested to complete the attendance register.
4. Apologies was noted.
5. Minutes of previous meeting was accepted.

COMPANY PROFILE

Background

Orepass & Mining Technologies (Pty) Ltd, is a mining company primarily focusing on the blasting technologies and innovation, making it safer and more users friendly. The company was established in 2001 by Johan Blignaut who is now the *Managing Director* of “OMT”. Johan Blignaut possesses of all the necessary skills and qualifications. The company’s network within the Mining Industry is evident of the fact of the professional services rendered over the years.

Vision

The Vision of the company is to become the leading supplier of specialized blasting services and technology throughout AFRICA.

Mission:

- Continued innovation
- Honesty
- Transparency
- Professionalism
- Respect
- Continued Training and Development

Not ONLY is this important to the industry, but it equally applies to all the staff of “OMT”.

Strategy

To be successful within this challenging industry, it is important to stay abreast with modern mining technologies and methods. It is therefore important, to at all times attend mining indabas and seminars that will allow “OMT” to optimally service the mining industry with specialized and professional up to date technology. It is also important to fully understand the strategic involvement of blasting during mining operations; hence the turnaround time on delivery of equipment is vitally important.

SAFETY IS THE MOST IMPORTANT ASPECT OF ANY PROJECT
THERE IS NO SUBSTITUTE FOR SAFETY!



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Marketing:

Not ONLY is the Mining Industry challenging with regard to labour strikes, DMR stoppages etc. Pricing and quality of products is also very important. It is therefore "OMT's" responsibility to look at the market trends and obtain the best quality product at the most affordable prices at all times. This will ensure that "OMT" will not only stay in the market, but become the preferred supplier / vendor of these services.

Strategic Relationships

As mentioned before, the Mining Industry is a very challenging industry and one of the key issues is building and maintaining a strong and solid relationships with suppliers of products that will ultimately enable "OMT" to render a professional and specialized service to all its clients. Safety and time in the Mining Industry is very important. It is therefore "OMT's" strategic goal to supply quality products, systems and technology that will ensure optimal blasting controls and innovation to minimize gasses. This will ultimately increase production.

Product Range

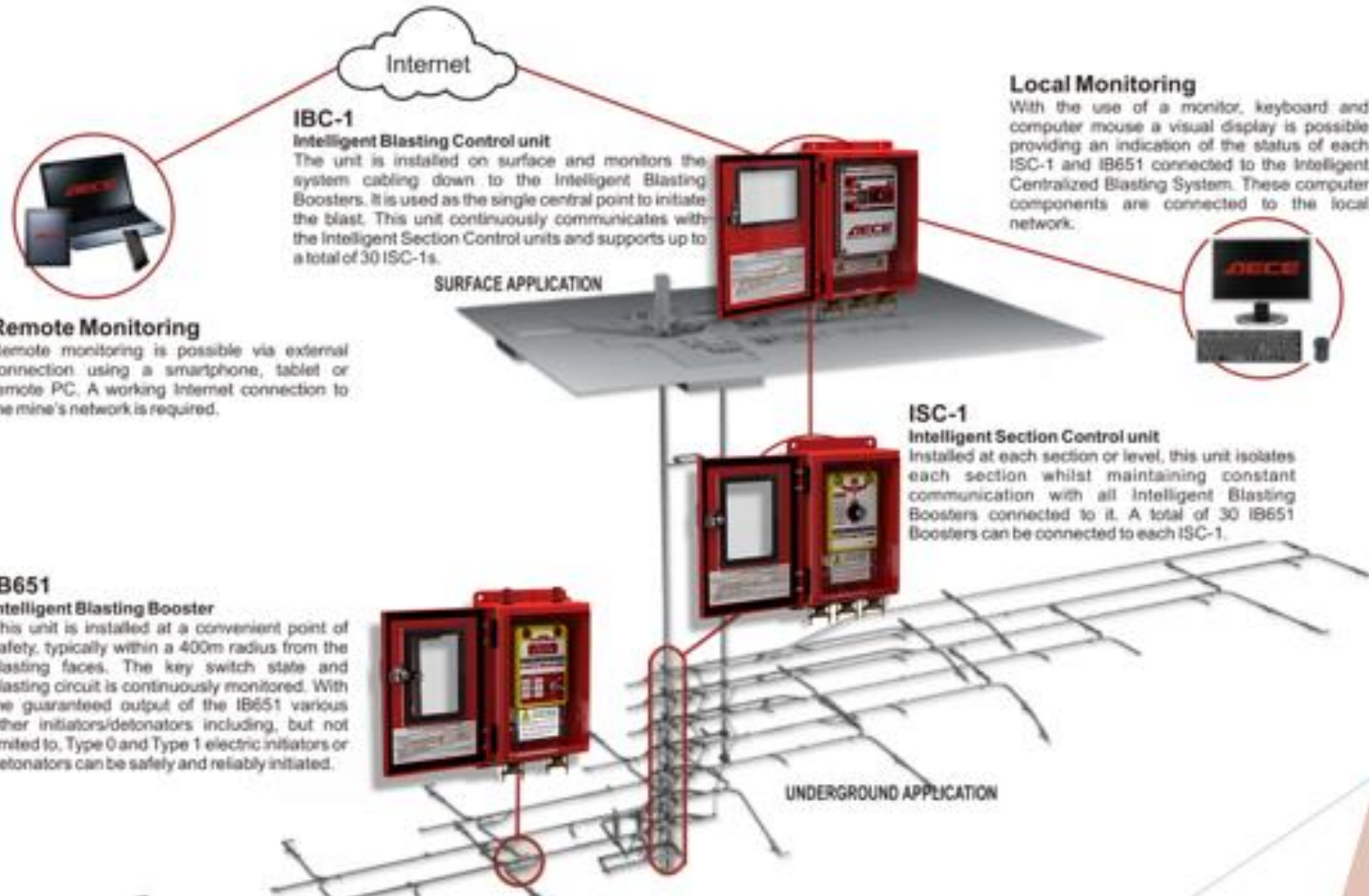
OMT consist of a broad spectrum of products and services:

- Blockbuster/ Slug shot with Support Bar / Tripod
- RBC/ Rock breaking Cartridges
- IED Instantaneous Electric Detonators
- Armored cable red with blue stripe 1.5mm², 2.5mm², 4mm²
- Blasting Wire 0.6mm², 1.5mm²
- AECE Shot Exploders
- AECE Centralized Blasting
- 1 WD651 Stand Alone System
- 2 CBS-2 Centralised Blasting System
- 3 IBS Intelligent Blasting System
- Recertification of Shot Exploders
- Training / Risk Assessments/Business Management Systems – ISO 14001 /18001/9001

J.P. BLIENZDORF, MD/TECHNICAL
THERE'S NO SUBSTITUTE FOR SAFETY!

Intelligent Centralized Blasting System Overview

WD651 Standalone Blasting Unit



Intelligent Blasting Control Unit (IBC-1)



MAIN FUNCTION

- Controls up to 30 Centralized Section Control Boxes.
- Constantly monitors all connected Centralized Section Boxes and incorporated cable fault detection system.

SAFETY FEATURES

- Will not fire if there is a cable fault.
- FIRING key switch is unique.
- Unit is housed in a lockable steel enclosure.

FEATURES

- Continuous monitoring and uplink to Centralized Section Control Box.
- Real time system status overview.

Intelligent Section Control Unit (ISC-1)



MAIN FUNCTION

- Provides section/level isolation and data information from the connected Centralized Blasting Boxes.
- Continuous outgoing supply cable monitoring into the connected downstream Centralized Blasting Boxes for short circuit and Earth leakage detection.

FEATURES

- The outgoing supply cable is independently fed from inter-level cable during monitoring mode which enables easy fault finding.
- Information/data downloading occurs with Centralized Blasting Boxes over the outgoing supply cable, no need for additional cabling.

SAFETY FEATURES

- If cable fault detected on supply cable the ISC-1 will automatically isolate the section/level.

SHOCKTUBE STARTER

Intelligent Blasting Booster (IB651)



MAIN FUNCTION

- The Centralized Blasting Box performs the firing function of the Centralized Blasting System.
- It incorporates intelligence to continuously and automatically collect data about the current state of the unit then relays the information to the Centralized Control Box on surface.

SAFETY FEATURES

- Can be individually isolated from the supply cable network using the key switch.
- Unit will only fire if connect to an IBC-1.

FEATURES

- Continuous monitoring of Centralized Blasting Box key switch and output circuit status.
- A dedicated/fixed uplink with surface unit.
- STATUS light conveys visual information about the unit's status.



Recommended for the effective initiation of Shocktube using the C-type connector block supplied. Aluminum shell with a primary explosive compound, incorporating an electro-pyrotechnic ignition element and two conducting wires sheathed in a plastic semi-conductor. Manufactured using RDX base charge to make it **2.5 times** less sensitive to impact when compared to traditional PETN detonators.

Overview

Blockbuster with accessories
RBC/ Rock breaking Cartridges
IED Instantaneous Electric Detonators
Armored cable red with blue stripe 1.5mm², 2.5mm², 4mm²
Blasting Wire 0.6mm², 1.5mm²
AECE Shot Exploders
AECE Centralized Blasting

- 1 WD651 Stand Alone System
- 2 CBS-2 Centralised Blasting System
- 3 IBS Intelligent Blasting System

Recertification of Shot Exploders
Training / Risk Assessments / Business Management Systems -
ISO 14001 / 18001 / 9001

The chairman mentioned that presentations should be allowed in order for the mines to make use of presented ideas in order to improve health and safety.

Presentations for next meeting:

1. Orepass Mining Technologies – RBC's
2. NXCO to give presentation on rock breaking cartridges at RTF – date to be confirmed by

David.

Previous Minutes, Unresolved Matters & General

- Deon de Villiers mentioned that all tamping / stemming products will be tested via the COM Explosives Task Team and results will be forwarded to all the mining companies.
- Shafts to keep record of BIT's / emulsion pumps for auditing and control purposes.
- The chairman stressed the challenges of 2018 – do not wait until next meeting – contact the chairman at anytime for assistance.
- The chairman asked if responsible persons has been appointed at all operations – DdV replied that persons at Harmony operations has been identified, but the new Explosives Act has not been promulgated to appoint responsible persons legally.
- The chairman mentioned that application for CH4-Reg.6.3 should be applied for.
- COM still awaiting feedback from MRAC.
- COP's and risk assessments relating to abandoned explosives (emulsion spillage) to be drafted for presentation to the DMR.
- All tamping / stemming products will be undergoing a testing phase and outcome of results will be forwarded to all mining houses.

Explosives Related Accidents / Incidents

- ❖ Captain Koen was thanked for his assistance to obtain transport permission with FOG incident at Tshepong mine, where a lady was trapped.
- ❖ The chairman informed all that all theft of explosives incidents must be reported to the CIE. Capt. Koen responded that Harmony do report all incidents and are kept on record.

- The chairman thanked all members including organised labour for attending and their contributions throughout 2017.
- Each committee member to print their own set of minutes for future meetings. No hard copies of minutes will be supplied and the overhead projector will be used during meeting.
- The next meeting is scheduled for Friday 2 February 2018 at Harmony – IMS Canteen.
- All requests and recommendations to be forwarded to (sybel.scheepers@harmony.co.za), prior to the next meeting.
- AEL and GT Tamp was thanked for the supply of the refreshments and Sibanye Gold for their venue.

The proposed hosts (for the supply of refreshments) are scheduled as follows:

- February 2018 - Sasol Explosives

Next Meeting Venue: Harmony – IMS Canteen





Thank you